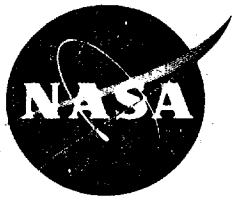

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HANDBOOK

FLUID CONTROL VALVE

FUNCTIONAL STANDARDIZATION PROGRAM

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HANDBOOK

FLUID CONTROL VALVE

FUNCTIONAL STANDARDIZATION PROGRAM

Contract No. NAS10-6717

Prepared by

Service Technology Corporation
Test and Operations Division
PO Box 58761
Houston, Texas 77058

June 1970

for

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHN F. KENNEDY SPACE CENTER
DESIGN ENGINEERING DIRECTORATE
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Kennedy Space Center, Florida 32899

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1.0 INTRODUCTION

1.1 BACKGROUND

This Handbook comprizes the documentation generated as a result of a study related to the Fluid Control Valve Functional Standardization Program for the John F. Kennedy Space Center.

Initial activities concentrated on collecting data relative to valves in the fluid systems of Launch Complex Areas LC-34, LC-37B, LC-39A and LC-39B, and a portion of the fluid systems in the Industrial Area. Only valves ranging in size from 1/4 inch to 4 inches that are the responsibility of KSC Design Engineering were included in the study.

Analysis of the data disclosed many possibilities for interchangeability of valves with similar or identical characteristics, and pointed out the need for an organization of the data for quick reference by logistics personnel, design engineers, and other personnel in positions to authorize valve substitutions.

1.2 HANDBOOK FORMAT

Computerized valve data collected during the study comprizes a major portion of this Handbook. In addition to the Introduction, the remainder of the Handbook consists of the Appendixes which contain the various abbreviation and code sheets used to interpret the valve data contained on the computer sheets. The valve data contained in the "NASA Part Number Sort" printout, located in Section Two, was compiled from the respective NASA valve specifications and is arranged in the following sort order: (1) NASA Part Number, (2) Vendor Name, (3) Vendor Part Number.

The "Vendor Part No./Valve Class Sort" printout, located in Section Three, consists of valve data recorded from vendor drawings and catalogs and is sorted in the following order: (1) Valve Class, (2) Valve Size, (3) Vendor Name, (4) Vendor Part Number.

Seven basic classes of valves are listed in the printouts: (1) manual, (2) check, (3) relief, (4) solenoid actuated, (5) flow regulating, (6) pressure regulating, and (7) directional control. Valves in the flow regulating, pressure regulating, and directional control classes are further arranged into three subclasses each, as shown below:

Flow Regulating Valves	Pressure Regulating Valves	Directional Control Valves
Shutoff	Pressure Regulator	Selector
Flow Control	Pressure Control	Shuttle
Flow Restricting	Back Pressure Control	Calibration

1.3 USING THE HANDBOOK AS A TOOL

The computer printout material in this Handbook is formated to permit a number of different search routines to allow full utilization of the material content, either for determining a replacement valve to use as an emergency spare part, or for researching the valve inventory as part of a scheduled standardization program. The material is a concise compilation of information on previously used vendor valves and applicable NASA valve specification requirements.

While the information content of this Handbook is deemed to be accurate, the records from which it was compiled are in a state of change. Therefore, it is recommended that the Vendor Data Library (compiled during this study and furnished to KSC Design Engineering), the applicable NASA specification, and the actual valve hardware all be carefully examined to verify the suitability of the valve being considered for substitution, and to assure that it actually meets the requirements of the valve being placed.

Three different basic search routines are available to the Handbook user in determining valve interchangeability. They are: Direct Interchangeability, Indirect Interchangeability, and Potential Interchangeability. These three approaches are described in the following section.

1.4 SEARCH ROUTINES

1.4.1 Direct Interchangeability Search Routine

Direct interchangeability indicates that the original valve is being replaced by a valve having the same vendor part number, regardless of the difference in the NASA part numbers listed for the valve in question.

Assume that a requirement exists to find a NASA part number valve to substitute for a valve whose NASA part number is known. Using the computer printouts in Section Two and Section Three of this Handbook, proceed as follows:

a. Search the "NASA Part Number Sort" printout for the NASA part number of the valve for which a substitution is required. (NASA part numbers are listed in numerical sequence in this sort.) Note the vendor part number and the approved vendor listed for this valve, and also the valve size and class.

b. Next, search the "Vendor Part No./Valve Class Sort" printout for the valve class and size category corresponding to that called out in the "NASA Part Number Sort." (Vendors are listed alphabetically within each class and size group. Vendor part numbers are sorted in numerical sequence for each vendor.) Scan for the designated vendor part number. It is likely that this vendor number will be listed several times, related to different NASA part numbers.

NOTE

It may be assumed that all valves furnished under the same vendor part number are identical; however, it is recommended that all associated NASA specifications and/or actual valve hardware be compared to ensure that critical requirements specified for the original valve are included in the specification of the replacement valve.

c. When it has been ascertained that one or more of the applicable NASA specifications call for a valve identical in all essential particulars to that furnished under the original specification, check the KSC warehouse or vendor stock for availability, then obtain approval for the substitution on either a temporary or permanent basis, depending on the circumstances of the replacement.

This procedure is illustrated by the following example which assumes that an identical vendor part number valve be located as a replacement for NASA part number 75M09220-PCV-5, Annin valve part number MOD 6590(2)XXSGR.

Refer to the reduced printouts shown in example 1.4.1 and determine the interchangeability candidate in the following manner:

Step a. Refer to the "NASA Part Number Sort" printout (page 2-22) and locate the NASA part number. The valve shown is Annin MOD 6590(2)XXSGR, a 2-inch check valve.

Step b. Next, refer to the "Vendor Part No./Valve Class Sort" printout (page 3-12) and within the 2-inch check valve category, locate the potential valve replacements:

75M09618-PCV-3 and
75M05871-PCV-10

Step c. It will be noted that the vendor part number in question is listed three times, related to three different NASA specifications, including the part requiring replacement. The next step would be to check the availability of these parts in the KSC inventory. If either or both parts are available, a further check would be made (by examining the specification documents) to determine that the valve or valves having identical vendor part numbers are identical or sufficiently similar to meet the requirements of the fluid system in which the valve is to be used. In making this determination, consideration would be given to whether the substitution is for an emergency replacement or for a long-range inventory-reduction program.

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	BRNG	TRIM	SEAL	SPG	OTHR	
75M09007-1	G	458-32SS	REPUBLC	1.50	CHECK	3000	POPPET,INLINE,ANY,DIR OP,	68X68	X	.00	S1S1S11262						
75M09220-PAV-1	-	44-1525	AMINCO	.25	MANUAL	6000	NEEDLE,ANGLE,SHUTOFF, ,	46X46	D	.09	00 S1S2S11200						
75M09220-PAV-2	-	5073X1007	APCO	.38	MANUAL	6000	GLOBE,ANGLE,FLOW REG, ,	13X13	BC	1.8CV	S1S1S11200						
75M09220-PCV-1	-		SECURTY	.25	CHECK	6000	POPPET,INLINE,ANY,DIR OP,	13X46	D	.09	00 S1S1001200						
75M09220-PCV-2	-		SECURTY	.75	CHECK	6000	POPPET,INLINE,ANY,DIR OP,	68X68	D	7.0CV	S1S1001200						
75M09220-PCV-5	-	MOD 6590(2)XXSGR	ANNIN	2.00	CHECK	6000	LIFT ,INLINE,HORZ,DIR OP,	68X68	D	22.0CV	S1S1S11200						
75M09220-PCV-6	-		SECURTY	3.00	CHECK	200	SWING,INLINE,HORZ,DIR OP,CRY	62X62	DH	290.0CV	S1S1S11200						
75M09220-PGLV-1		5071X1006-4	APCO	.00						.00							
75M09220-PGLV-2	-	5071X1006-4	APCO	.38	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,P	13X13	D	1.2CV	S1S1S11262						
75M09220-PGLV-5	-	5072X1004-3	APCO	.75	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,P	68X68	D	3.8CV	S1S1S11200						
75M09220-PGLV-6	-	MOD 6510(1)XXSGR12-1.2	ANNIN	1.25	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,P	68X68	D	5.8CV	S1S1001200						
75M09220-PPRV-1	-	M-12961-F MOD 94	GROVE	.38	PRES REG	6000	RLG,DOM,N-R,PRS, , 750/0	13X13	D	.19	00 S1S1S11262						
75M09220-PRV-1	-		FL-MECH	1.00	RELIEF	6600	DIR,INLIN, ,6600P,	68X68	D	.31	00 S1S1S10200						
75M09220-PRV-2	-	649X9-7-E-T	REPUBLC	.38	RELIEF	850	DIR, , 825GP,	27X27	BC	.25	00 S1S1001412						
75M09285-1	G	806098 MOD MV583H-2A	MAROTTA	.50	SOLENOID	3000	SOL,3W,2P,NC,DIR ACT ,	19X19	BX	.19	00 S1S1140212						
75M09285-2	G	806098-1 MOD MV583H-2A	MAROTTA	.50	SOLENOID	3000	SOL,3W,2P,NC,DIR ACT ,	19X19	BX	.19	00 S1S1140212						
75M09286-3	H	231074-22 MOD PRV4M	MAROTTA	.25	RELIEF	3000	DIR,INLIN, ,1500GP,1300/2350	19X19	B	.02	00 A1A1A10251						
75M09286-5	H	231074-23 MOD PRV4M	MAROTTA	.25	RELIEF	3000	DIR,INLIN, ,2350GP,1300/4300	19X19	B	.02	00 A1A1A10251						
75M09569-1	C	224-12	REPUBLC	.75	MANUAL	2000	GLOBE ,OFFSET,SHUTOFF, ,P	13X13	X	.00	00 S0S0001200						
75M09571-1	C	1006-81	ROBSHAW	.50	FLOW REG	250	FLO-CT,GLOBE,BELLOWS ,TMP,	10X10	N	.00	B1S1S11200						
75M09618-PAV-1	-	44-1525	AMINCO	.25	MANUAL	6000	NEEDLE,ANGLE, , ,	46X46	D	.09	00 S1S1001200						

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	BRNG	TRIM	SEAL	SPG	OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT	
	SIZE: 1.50INCH (CONTD)																
CRANE	1021 (1.50)				, , , ,		.00							.00	1	0	
FLOMATC	DE-101	75M05867-PCV-5	200	Y -S	LIFT ,OFFSET,HORZ,DIR OP,	62X62	11.88	S1S1131200						.00	1	0	1
J.P&C	299T-24TT	75M11879	3000	X -S	POPPET,INLINE,ANY ,DIR OP,	15X15	6.20	S1S1S10200						.00	1	0	1
REPUBLC	458-32SS	75M09007-1	5000	X -S	POPPET,INLINE,ANY ,DIR OP,	68X68	10.75	S1S2S11262						.00	10	3	1
REPUBLC	493-24SST-2	11M00946-3	3000	BX -S	POPPET,INLINE,ANY ,DIR OP,	13X13	6.25	S1S1121200						30.0	CV	7	0 1
REPUBLC	493-24SST-40	11M00846-7	3000	BX -S	POPPET,INLINE,ANY ,DIR OP,	13X13	6.25	S1S1121200						30.0	CV	1	0 1
VACCO	LCV-6P-X467	75M05871-PCV-4	6000	BC -S	LIFT ,INLINE,HORZ,DIR OP,	68X68	.00	S1S1131200						15.0	CV	1	1 1
	CLASS:CHECK SIZE: 2.00 INCH																
ANNIN	MOD 6590(2)XXSGR	75M09220-PCV-5	6000	D -S	LIFT ,INLINE,HORZ, ,	68X68	.00							.00	1	0	1
ANNIN	MOD 6590(2)XXSGR	75M09618-PCV-3	6000	D -S	LIFT ,INLINE,HORZ, ,	68X68	.00							.00	1	1	1
ANNIN	MOD 6590(2)XXSGR	75M05871-PCV-10	6000	BC -S	LIFT ,INLINE,HORZ, ,	68X68	.00							.00	1	1	1
CRANE	38		125	R -V	SWING ,INLINE,HORZ,DIR OP,	10X10	5.12	B2B2B2U200						.00	2	0	2
CRANE	36 (4.00)		400	R -V	SWING ,INLINE,HORZ,DIR OP,	10X10	6.00	B3B3B3U200						.00	1	0	2
J.P&C	K22DT-1EPP-I		3000	FCH-V	POPPET,INLINE,ANY ,DIR OP,CRY	10X10	6.13	S1S1S11200						.00	4	2	2
J.P&C	220T1-16LL	75M51256-1	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	68X68	10.75	S1S1S10200						.00	3	0	1
	CLASS:CHECK SIZE: 2.00 INCH																

STEP-a

STEP-b

EXAMPLE 1.4.1 DIRECT INTERCHANGEABILITY

1.4.2 Indirect Interchangeability Search Routine

Indirect Interchangeability occurs when a substitute valve is used that differs in vendor part number from that valve being replaced. This method of finding a valve replacement would be employed after it has been determined, by previously using the Direct Interchangeability Search Routine, that none of the available NASA part number valves is an identical substitute for the valve to be replaced, or that the identical vendor part number valve normally furnished under another NASA part number is not currently available in KSC stock.

1.4.2.1 Basic Routine for Indirect Interchangeability Search

A need for a Basic Indirect Interchangeability search occurs when a replacement valve is required for a NASA part number for which more than one vendor valve may be supplied. It has been determined by a previous search that neither of the vendor valves is available under the original NASA part number, and that the vendor valve that is to be replaced is not available under another NASA part number. The search routine is as follows:

a. Refer to the "NASA Part Number Sort" printout and locate the NASA part number. Note the vendor part number and the approved vendor listed for these valves, and also the valve size and class.

b. Next, refer to the appropriate class and size category of the "Vendor Part No./Valve Class Sort' printout and locate the vendor part number. The accompanying NASA part number valves are potential replacement candidates.

c. Determine which one of the NASA part number valves best meet the requirements of the valve being replaced and then obtain approval for the substitution as required.

This search procedure is illustrated by the following example which assumes that a replacement valve be located for NASA part number, 75M51328-1, Robbins part number SSKG250-4C-787-12. It has been determined by a previous search that none of the vendor valves are in stock under the 75M51328-1 NASA part number, and that the SSKG250-4C-787-12 vendor valve being replaced is not available in stock under any other NASA part number.

Referring to the reduced printouts shown in Example 1.4.2.1, determine the replacement valve part number in the following manner:

Step a. Search the "NASA Part Number Sort" printout (page 2-44) and locate NASA part number 75M51328-1. The vendor valves shown are Robbins 1/4-inch manual valves; part numbers SSKG250-4C-768-12, SSKG250-4C-787 and the valve being replaced SSKG250-4C-787-12.

Step b. Next refer to the "Vendor Part No./Valve Class Sort: printout (page 3-31) and within the 1/4-inch manual valve category.

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NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAL	SOFT MAT	O RING	
75M51290-2	A	230514-2 MOD RV23DK	MAROTTA	.38	PRES REG	1000	REG,DOM,RLV,MAN, ,1000/5	19X19	ABC	.00	S	1	S	1	S	10212
75M51290-3	A	230514-3 MOD RV23DK	MAROTTA	.38	PRES REG	4500	REG,DOM,RLV,MAN, ,4500/50	19X19	ABC	.00	S	1	S	1	S	10212
75M51291	A	15CFM-210 (2.00)	MISSION	2.00	CHECK	150	SWING ,INLINE,ANY ,DIR OP,	62X62	ABC	.00	S	1	S	1	S	10200
75M51291	A	2102-232-08	MISSION	2.00	CHECK	150	SWING ,INLINE,ANY ,DIR OP,	62X62	ABC	.00	S	1	S	1	S	10200
75M51313-1	E	P11-698	J.P&C	.25	CHECK	2000	POPPET,INLINE,ANY ,DIR OP,	18X73	BCE	.00	S	1	S	1	S	10204
75M51313-2	E	P12-698	J.P&C	.38	CHECK	2000	POPPET,INLINE,ANY ,DIR OP,	18X73	BCE	.00	S	1	S	1	S	10204
75M51315-1	B	20-7851-1	AUTOCLV	.25	MANUAL	6000	NEEDLE ,OFFSET, , ,P	19X19	ABC	.00	S	1	S	1	S	11253
75M51315-2	B	20-7893	AUTOCLV	.38	MANUAL	6000	NEEDLE ,OFFSET, , ,P	19X19	ABC	.00	S	1	S	1	S	11253
75M51315-3	B	20-7852-1	AUTOCLV	.50	MANUAL	6000	NEEDLE ,OFFSET, , ,P	19X19	ABC	.00	S	1	S	1	S	11253
75M51315-3	B	C-188-8-1 (.50)	CALMEC	.50	MANUAL	6000	NEEDLE ,OFFSET, , ,P	19X19	ABC	.00	S	1	S	1	S	11253
75M51321-3	B	2-9064-A	SAGE	.25	DIR CONT	6000	CALIBRATN	19X19	BCE	.00	S	1	S	1	S	11253
75M51321-3	B	2-9064-B	SAGE	.25	DIR CONT	6000	CALIBRATN	19X19	DCE	.00	S	1	S	1	S	11253
75M51327	A	KT-180-6C-12-763	ROBBINS	.38	MANUAL	6000	GLOBE ,3-PORT,METERING, ,P	19X19	E	.18	00	S	1	S	1	30600
75M51327	A	T-180-6C-787	ROBBINS	.38	MANUAL	6000	GLOBE ,3-PORT,METERING, ,P	19X19	E	.18	00	S	1	S	1	30600
75M51327	A	T-180-768	ROBBINS	.38	MANUAL	6000	GLOBE ,3-PORT,METERING, ,P	19X19	E	.18	00	S	1	S	1	30600
75M51327	A	T180-6C-787	ROBBINS	.38	MANUAL	6000	GLOBE ,3-PORT,METERING, ,P	19X19	E	.18	00	S	1	S	1	30600
75M51327-1		230413 MOD HVN6D	MAROTTA	.00						.00						
75M51328-1	A	SSKG250-4C-768-12	ROBBINS	.25	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	E	.13	00	S	1	S	1	30600
75M51328-1	A	SSKG250-4C-787	ROBBINS	.25	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	E	.13	00	S	1	S	1	30600
75M51328-1	A	SSKG250-4C-787-12	ROBBINS	.25	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	E	.13	00	S	1	S	1	30600
75M51328-2	A	SSKG375A-6C-768-12	ROBBINS	.38	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	E	.31	00	S	1	S	1	30600

STEP-a

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VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAL	SOFT MAT	O RING	FLOW FACTOR	P/N TOT	M/R UCN TOT
SIZE: 0.25INCH (CONTD)															
ROBBINS	SSKA250-4C-768	75M51329-1	6000	QAB-S	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.25	S	1	S	1	30200	.2 CV	80	3 1
ROBBINS	SSKA250-4C-768	75M08413-1	6000	BX -S	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.25	S	1	S	1	30200	.2 CV	12	0 1
ROBBINS	SSKA250-4C-787	75M51329-1	6000	QAB-S	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.25	S	1	S	1	30200	.2 CV	2	0 1
ROBBINS	SSKA250-4C-787		6000	STK-V	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.25	S	1	S	1	30200	.2 CV	48	0 1
ROBBINS	SSKG250-4C-768	75M08414-1	6000	3X -S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S	1	S	1	30200	.1 CV	107	2 1
ROBBINS	SSKG250-4C-768	75M51328-3	6000	E -S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S	1	S	1	30200	.1 CV	27	0 1
ROBBINS	SSKG250-4C-768-12	75M51328-1	6000	E -S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S	1	S	1	30600	.1 CV	9	0 1
ROBBINS	SSKG250-4C-787	75M51328-1	6000	E -S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S	1	S	1	30200	.1 CV	6	0 1
ROBBINS	SSKG250-4C-787	75M51328-1	6000	STK-S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S	1	S	1	30200	.1 CV	45	0 1
ROBBINS	SSKG250-4C-787	75M08405-1	6000	ABC-S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S	1	S	1	30200	.1 CV	1	0 1
ROBBINS	SSKG250-4C-787-12	75M51328-1	6000	E -S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S	1	S	1	30600	.1 CV	6	0 1
ROBBINS	SSKG250-4T	75M17763-HOLV-1	6000	HCO-S	GLOBE ,INLINE,METERING,VAC,P	13X13	2.25	S	1	S	1	30200	.1 CV	1	0 1
ROBBINS	SSKG250-4T-768	75M25527-1	6000	STK-V	GLOBE ,INLINE,METERING,VAC,P	13X13	2.25	S	1	S	1	30200	.1 CV	16	0 1
ROBBINS	SSKG250-4T-768		6000	STK-V	GLOBE ,INLINE,METERING,VAC,P	13X13	2.25	S	1	S	1	30200	.1 CV	1	0 1
ROBBINS	SSNA250-4C-787	75MC1305-1	6000	ABC-S	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.25	S	1	S	1	40200	.2 CV	74	4 1
ROBBINS	SSNA250-4T	75M17763-HOLV-16	6000	HCO-S	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.25	S	1	S	1	40200	.2 CV	1	0 1

CLASS:MANUAL
SIZE: 0.25 INCH

STEP-b

EXAMPLE 1.4.2.1 BASIC ROUTINE FOR INDIRECT INTERCHANGEABILITY SEARCH

locate Robbins part number SSKG250-4C-787. The accompanying NASA part number valves, 75M54328-1 and 75M01805-1, are potential Indirect Interchangeability candidates for NASA part number 75M51328-1.

c. Determine which of the two NASA part number valves best meets the requirements of the 75M51328-1 valve being replaced and then obtain approval for the substitution as required.

1.4.2.2 Alternate Routine for Indirect Interchangeability Search

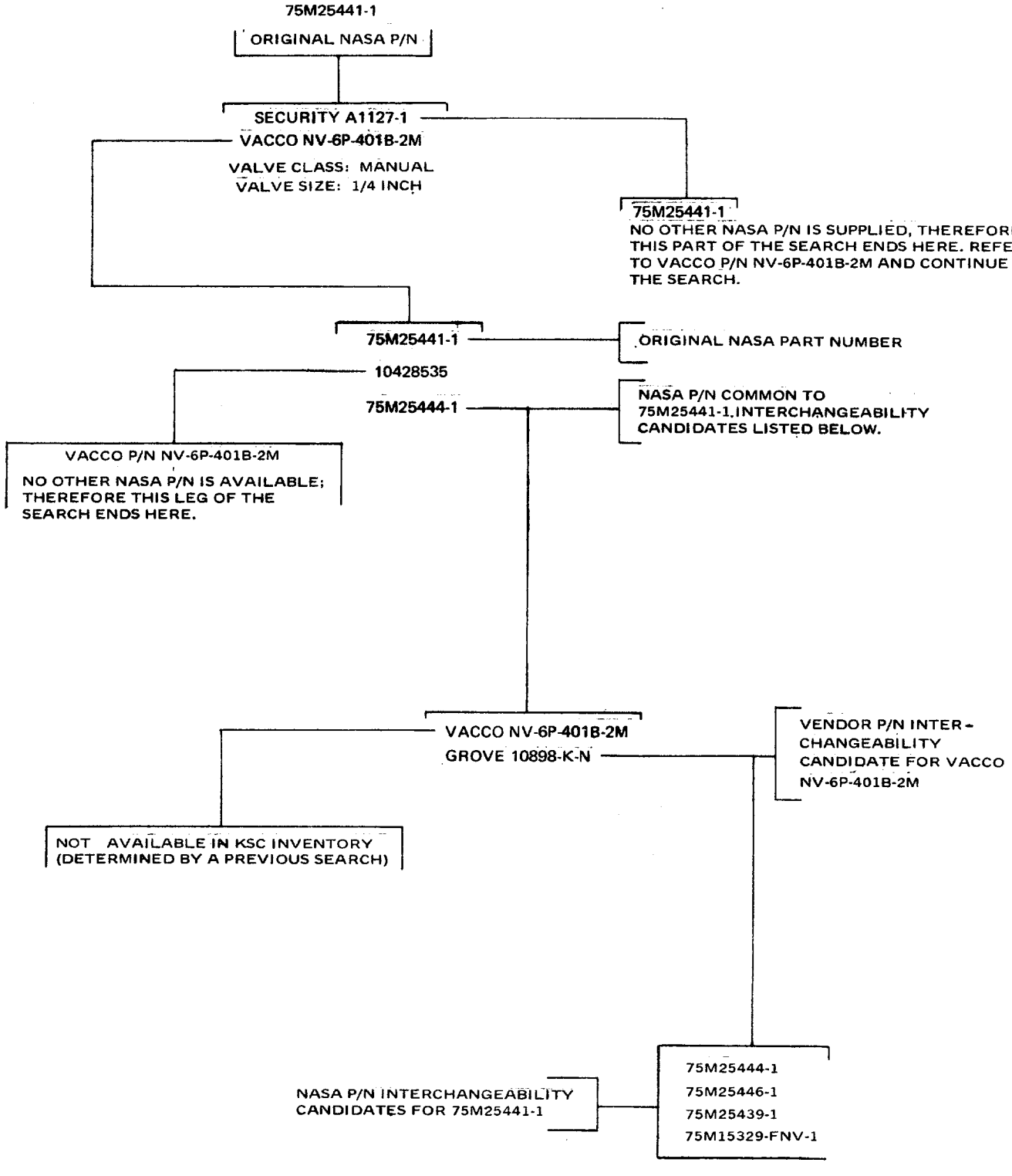
A more involved search routine for Indirect Interchangeability is based on the premise that two other NASA part number valves supplied by different vendors are interchangeable, providing that both of the vendor valves are furnished under a third and related NASA part number. While not assuring a certain substitute, valves related in this manner are prime candidates for interchangeability. The following steps would be taken in using this Handbook to locate a suitable valve replacement.

a. Refer to the "NASA Part Number Sort" printout and locate the NASA part number. Determine the vendor valve part number and the approved vendor listed for these valves, and also the valve size and class.

b. Refer to the "Vendor Part No./Valve Class Sort" printout and find the vendor part number or numbers in the appropriate class and size grouping. Only the original NASA part number is listed for the vendor part number sought, the search ends at this point.

c. If additional NASA part numbers are listed, choose one and find that number in the "NASA Part Number Sort" printout. (It should be remembered that a previous examination of the printout data using the Direct Interchangeability Search routine has established that the required vendor valve is not available in KSC inventory under any other NASA part number.) Any vendor valves listed in conjunction with the additional NASA part numbers are prime candidates for interchangeability with the original NASA part number with which the search started. If the only vendor number listed with the new NASA part number is the same as that listed for the original NASA part number, this NASA part number is eliminated from consideration.

d. If additional vendor part numbers are found, choose one, then refer to the "Vendor Part No./Valve Class Sort" printout and determine whether this new vendor part number is furnished under an additional NASA part number. All NASA part number valves under which this vendor valve is furnished would be candidates for indirect interchangeability and should be compared to the original valve to insure that all valve requirements are met.


75M25441-1
ORIGINAL NASA P/N
SECURITY A1127-1
VACCO NV-6P-401B-2M
VALVE CLASS: MANUAL
VALVE SIZE: 1/4 INCH
75M25441-1
NO OTHER NASA P/N IS SUPPLIED, THEREFORE THIS PART OF THE SEARCH ENDS HERE. REFER TO VACCO P/N NV-6P-401B-2M AND CONTINUE THE SEARCH.
75M25441-1
ORIGINAL NASA PART NUMBER
10428535
75M25444-1
NASA P/N COMMON TO 75M25441-1. INTERCHANGEABILITY CANDIDATES LISTED BELOW.
VACCO P/N NV-6P-401B-2M
NO OTHER NASA P/N IS AVAILABLE; THEREFORE THIS LEG OF THE SEARCH ENDS HERE.
VACCO NV-6P-401B-2M
GROVE 10898-K-N
VENDOR P/N INTER-CHANGEABILITY CANDIDATE FOR VACCO NV-6P-401B-2M
NOT AVAILABLE IN KSC INVENTORY (DETERMINED BY A PREVIOUS SEARCH)
NASA P/N INTERCHANGEABILITY CANDIDATES FOR 75M25441-1
75M25444-1
75M25446-1
75M25439-1
75M15329-FNV-1

EXAMPLE 1.4.2.2-a ALTERNATE ROUTINE FOR INDIRECT INTERCHANGEABILITY SEARCH

Due to the involved nature of this particular search routine, a flow chart, shown in Example 1.4.2.2-a, has been provided to depict in graphical form the different steps followed in selecting a replacement for a 1/4-inch manual valve having NASA part number 75M25441-1, utilizing the alternate Indirect Interchangeability search routine. To further aid the user, reduced copies of the printout sheets involved in the search routine are shown in Example 1.4.2.2-b.

1.4.3 Potential Interchangeability Search Routine

Potential Interchangeability Search is a general search routine that relies on locating valves with similar valve characteristics to determine potential candidates for interchangeability.

If, after both the Direct and Indirect Interchangeability search routines have been applied and no suitable valve replacement has been discovered, the Potential Interchangeability search routine may be employed to narrow the field of valve candidates to those that have the greatest potential for qualifying as replacement for the required valve. The method of determining a valve replacement consists of the following steps:

a. Consult the "NASA Part Number Sort" printout and determine the class and size, as well as other critical characteristics, of the valve to be replaced.

b. Refer to the appropriate "Class and Size" category of the "Vendor Part No./Valve Class Sort" printout and procede to scan the "Description/Function" field until the valve (or valves) that meet the functional requirements for interchangeability are found. Each valve will then be individually investigated to determine which valve best meets the remaining required parameters such as rated pressure, rated fluid media, valve material, etc.

c. Check to determine the availability of the valve in KSC inventory or vendor stock, depending on the nature and urgency of the requirement for interchangeability.

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NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAT	SOFT MAT	O-RING
75M25395-1-5-2	-	1881-5DE6	TESCOM	.38	MANUAL	6000	GLOBE,ANGLE,SHUTOFF,,P	19X19	ABC	.36	EO	S	S	1	S
75M25395-1-7-2	-	5354-4D96	TESCOM	.56	MANUAL	6000	GLOBE,ANGLE,SHUTOFF,,P	46X46	ABC	.36	EO	S	S	1	S
75M25395-1-9-2	-	30-1301-908-023	TESCOM	.50	MANUAL	6000	GLOBE,INLINE,SHUTOFF,,P		ABC	.00		S	S	1	S
75M25439-1		10898K-N	GROVE	.25	MANUAL		,,,,			.00					
75M25439-1		SSNG25C-4T	ROBBINS	.25	MANUAL		,,,,			.00					
75M25440-1		33860-1A	SECURTY	.30						.00					
75M25440-2		33860-1B	SECURTY	.50						.00					
75M25441-1		A1127-1	SECURTY	.25	MANUAL		,,,,			.00					
75M25441-1		NV-6P-4018-2M	VACCO	.25	MANUAL		,,,,			.00					
75M25442-1		CVL-02P-F468	VACCO	2.00	CHECK		,,,,			.00					
75M25442-2		CVL-6P-X465	VACCO	1.00	CHECK		,,,,			.00					
75M25442-4		CVL-6P-X469	VACCO	2.50	CHECK		,,,,			.00					
75M25442-5		CVL-6P-X464	VACCO	.75	CHECK		,,,,			.00					
75M25443-1		M-6P-X464-2C	VACCO	.75	MANUAL		,,,,			.00					
75M25443-2		M-6P-X465-2C	VACCO	1.00	MANUAL		,,,,			.00					
75M25443-3		M-6P-X466-2C	VACCO	1.25	MANUAL		,,,,			.00					
75M25443-4		M-6P-X469-2C	VACCO	2.50	MANUAL		,,,,			.00					
75M25443-5		M-6P-X467-2C	VACCO	.00						.00					
75M25444-1		10898K-N	GROVE	.25	MANUAL		,,,,			.00					
75M25444-1		NV-6P-4018-2M	VACCO	.25	MANUAL		,,,,			.00					
75M25446-1		10998K-N	GROVE	.25	MANUAL		,,,,			.00					

STEP-a

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VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	SOFT MAT	O-RING	FLOW FACTOR	P/N TOT	M/R UCR TOT
SIZE: 0.25INCH (CONTD)															
TESCOM	30-1101-104C		10000	ST -V	GLOBE,INLINE,SHUTOFF,,	P	33X33	2.23	S1S3140602				.5	CV 4	0 1
TESCOM	30-1101-304		10000	ST -V	GLOBE,INLINE,SHUTOFF,,	P	13X13	2.23	S1S3140602				.5	CV 1	0 1
TESCOM	30-1101-304-E		10000	ST -V	GLOBE,INLINE,SHUTOFF,,	P	13X13	2.23	S1S3140602				.5	CV 1	0 1
TESCOM	30-1111-104-002		10000	ST -V	GLOBE,INLINE,METERING,	P	33X33	2.23	S1S3140602				.5	CV 2	0 1
TESCOM	30-1111-104-004	75M51365	10000	ST -V	GLOBE,INLINE,METERING,	P	33X33	2.23	S1S3140602				.5	CV 2	0 1
TESCOM	30-1111-104-309		10000	ST -V	GLOBE,INLINE,METERING,	P	33X33	2.23	S1S3140602				.5	CV 1	0 1
VACCO	NV-6P-201-2C	75M05871-P0LV-13	6000	D -S	NEEDLE,INLINE,FLOW REG,	P	13X13	2.25	S1S1140212				.2	CV 8	0 1
VACCO	NV-6P-4018-2M	75M25444-1	6000	BC -V	GLOBE,INLINE,METERING,	P	13X13	2.00	S1S1140212				.5	CV 85	6 1
VACCO	NV-6P-4018-2M	10429535	6000	BC -V	GLOBE,INLINE,METERING,	P	13X13	2.00	S1S1140212				.5	CV 85	6 1
VACCO	NV-6P-4018-2M	75M25441-1	6000	BC -V	GLOBE,INLINE,METERING,	P	13X13	2.00	S1S1140212				.5	CV 85	6 1
VACCO	NVA-6P-401-2C	75M25446-1	6000	BC -V	NEEDLE,ANGLE,SHUTOFF,,	P	13X13	1.06	S1S1130200				.2	CV 18	0 1
VACCO	NVA-6P-401-2C	10428554	6000	BC -V	NEEDLE,ANGLE,SHUTOFF,,	P	13X13	1.06	S1S1130200				.2	CV 18	0 1
WHITEY	1RS4		3000	ST -V	NEEDLE,INLINE,FLOW REG,	P	54X54	2.31	S1S1S11200				.4	CV 14	0 1
WHITEY	1VF4-A-316 MODIFIED	75M11855	3000	X -S	NEEDLE,ANGLE,FLOW REG,	P	19X19	1.06	S1S1S11200				.7	CV 3	7 2
WHITEY	22R-316 MODIFIED	75M11878	3000	AB -S	NEEDLE,INLINE,METERING,	P	19X19	2.00	S1S1S11200				.1	CV 2	2 1
WHITEY	5RF4-316 MODIFIED	75M11871	3000	X -S	NEEDLE,INLINE,FLOW REG,	P	19X19	2.13	S1S1S11200				.5	CV 1	0 1
CLASS:MANUAL SIZE: 0.25 INCH															

STEP-b

EXAMPLE 1.4.2.2-b ALTERNATE ROUTINE FOR INDIRECT INTERCHANGEABILITY SEARCH

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NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MLD	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAT	SPG	O RING
75M25295-1-5-2	-	18P1-5066	TESCOM	.38	MANUAL	6000	GLOBE,ANGLE,SHUTOFF,,P	19X19	ABC	.36	CO	S1S1130			S1
75M25295-1-7-2	-	5354-4096	TESCOM	.56	MANUAL	6000	GLOBE,ANGLE,SHUTOFF,,P	96X96	ABC	.36	CO	S1S1130			S1
75M25295-3-9-2	-	36-1301-908-023	TESCOM	.50	MANUAL	6000	GLOBE,INLINE,SHUTOFF,,P		ABC	.00		S1S1130			S1
75M25439-1		10898K-N	GROVE	.25	MANUAL		,,,,			.00					
75M25439-1		SSNC25C-4T	ROBBINS	.25	MANUAL		,,,,			.00					
75M25440-1		33960-1A	SECURITY	.30						.00					
75M25440-2		33960-1B	SECURITY	.60						.00					
75M25441-1		A1127-1	SECURITY	.25	MANUAL		,,,,			.00					
75M25441-1		NV-6P-4018-2M	VACCO	.25	MANUAL		,,,,			.00					
75M25442-1		CVL-02P-F468	VACCO	2.00	CHECK		,,,,			.00					
75M25442-2		CVL-6P-X465	VACCO	1.00	CHECK		,,,,			.00					
75M25442-4		CVL-6P-X469	VACCO	2.50	CHECK		,,,,			.00					
75M25442-5		CVL-6P-X464	VACCO	.75	CHECK		,,,,			.00					
75M25443-1		M-6P-X464-2C	VACCO	.75	MANUAL		,,,,			.00					
75M25443-2		M-6P-X465-2C	VACCO	1.00	MANUAL		,,,,			.00					
75M25443-3		M-6P-X466-2C	VACCO	1.25	MANUAL		,,,,			.00					
75M25443-4		M-6P-X469-2C	VACCO	2.50	MANUAL		,,,,			.00					
75M25443-5		M-6P-X467-2C	VACCO	.00						.00					
75M25444-1		10898K-N	GROVE	.25	MANUAL		,,,,			.00					
75M25444-1		NV-6P-4018-2M	VACCO	.25	MANUAL		,,,,			.00					
75M25446-1		10998K-N	GROVE	.25	MANUAL		,,,,			.00					

STEP-c

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VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	SPG	O RING	FLOW FACTOR	P/N TOT	M/R UCR	TOT
SIZE: 0.25INCH (CONTD)																
DRAGON	818-0-5-4-KV		6000	ST -V	NEEDLE,INLINE,SHUTOFF,,P	13X13	2.25	S1S1130	600				.19	OD	9	0 1
DRAGON	818-7-5-4-KV		6000	ST -V	NEEDLE,ANGLE,SHUTOFF,,P	13X13	2.00	S1S1130	600				.19	OD	1	0 1
EDWARDS	6628F 316 (0.25)		4500	CO -V	GLOBE,INLINE,METERING,,N		.00						.00		1	0 1
FUTR-CR	30130	75M03568	3000	X -S	BUTTON,OFFSET,SHUTOFF,,P	13X13	1.75	S0A0S0	180	0			.00		8	4 1
FUTR-CR	30130-1	10925920	3000	ABC-S	BUTTON,OFFSET,SHUTOFF,,P	13X13	1.75	S0S0S0	180	0			.00		20	0 1
FUTR-CR	30404S	75M50161-1	6000	ABC-S	GLOBE,INLINE,SHUTOFF,,P	13X13	2.00	S1S1S1	020	0			.20	OD	2	2 1
GROVE	10899K-N	75M25446-1	6000	9M -V	NEEDLE,INLINE,SHUTOFF,,N	10X10	2.00	S1S1S1	170	0			.00		93	1 2
GROVE	10898K-N	75M25439-1	6000	8M -V	NEEDLE,INLINE,SHUTOFF,,N	10X10	2.00	S1S1S1	170	0			.00		93	1 2
GROVE	10899K-N	75M25444-1	6000	9M -V	NEEDLE,INLINE,SHUTOFF,,N	10X10	2.00	S1S1S1	170	0			.00		22	0 2
GROVE	10898K-N	75M15329-FNV-1	6000	YLM-S	NEEDLE,INLINE,SHUTOFF,,N	10X10	2.00	S1S1S1	170	0			.00		93	0 2
GROVE	10993KP2A	75M17761-LGLV-4	3000	8 -S	GLOBE,,,

DEFINITIONS OF HEADINGS
NASA PART NUMBER SORT

NASA PART NO: NASA's identifying code for a specific valve is listed under this heading. This number is identical to the NASA specification under which the valve was supplied.

REV LTR (Revision Letter): The alpha designator in this column identifies the revision state of the NASA specification from which the valve characteristics shown on the ensuing "NASA Part Number Sort" printout were derived.

VENDOR PART NO: The supplier's identifying number for a specific valve is given under this heading.

APPROVED VENDOR: Vendor's listed are those that are included as "Approved Sources" in the respective NASA specifications, and also other vendors that have furnished valves meeting the requirements of a given NASA valve specification.

VALVE SIZE: The numerical valve listed indicates the line size of the valve inlet port. Valve sizes ranging from 1/4 inch through 4 inches are included in the printout.

VALVE CLASS: Seven classes of valves are included in this printout. Appendix B provides a list of the valve classes and their abbreviations.

SPEC PRESS (NASA Specified Pressure): The value listed under this heading is the maximum working pressure of the valve as specified in the applicable NASA specification. The unit of measure is pounds per square inch (psi).

DESCRIPTION/FUNCTION: The abbreviated entries under this heading pertain to the physical description and functional characteristics of a specific valve. The abbreviated description is "constructed" in the same order in which the various descriptive categories are listed under their respective class headings. As an example, the manual valve description "GLOBE, OFFSET, SHUTOFF, VAC, P" indicates the valve type, port orientation, functional description, special service description, and provision for panel mounting, which is also the category order for the manual valve description/ function designations. The abbreviations are explained in Appendix C.

PORT CONN (Port Connection): The numeric coded entry under this heading describes the type of inlet and outlet connections with which a specific valve is supplied. For example, the entry "19x20" indicates the inlet connection (19) is a screwed internal tube thread MC240, and the outlet connection (20) is a screwed, external tube thread KC105. Port connection designation codes are found in Appendix D.

FLUID MED (Fluid Media): The alpha code entered in this column indicates the fluid media service for which the valve must be approved as required by the applicable NASA specification. For example, fluid media code "ABC" indicates the valve furnished must be approved for service with the following fluid media: air (A), gaseous nitrogen (B), and gaseous helium (C). Appendix E contains the fluid media code designations.

FLOW FACTOR: This category consists of a numerical value and an abbreviated identifier depicting the type of flow factor recorded. Four types of flow factors are indicated, as applicable: CV, flow coefficient; ED, equivalent sharp-edge orifice diameter; OA, orifice area; OD, orifice diameter.

VALVE MATL (Valve Material): The 10-digit alpha-numeric code entered under this heading identifies the material composition of selected valve components which come into contact with the flow media (wetted parts). The first two digits of the code indicate the body material, and the remaining code taken in two-digit segments, indicates the materials of the trim, seat, seal, and one other unidentified wetted part constructed of material differing from the valve parts previously described. Metal materials are designated in alpha-numeric code while non-metal materials are indicated by a numeric code. For example, the valve material code "A3-S1-14-03-B1" describes a valve with a cast aluminum body (A3), 300-series stainless steel trim (S1), a nylon seat (14), a neophrene seal (03), and another part made of bronze (B1). Appendix F provides the material code designations.

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAL MAT	SOLN COIL	OTHER
10M01211	-	V-41600-02	VALCOR	1.00	SOLENOID		, , , , ,			.00					
10414084	A	B-4100	BENTON	.25	DIR CONT		SELECT,3W,2P,MAN ACT ,DIR,	27X27		.00					C000001200
10423899		5120T-12TT-100	J,P&C	.75	RELIEF	2500	DIR,INLIN, , 100CP,		E	.00					
10425701-2	P	229604 MOD MV123K	MAROTTA	.38	SOLENOID	3000	SGL,3W,2P,MP,DIR ACT ,	19X19	ABC	.20	OD				S100140200
10425920	D	30130-1	FUTR-CR	.25	MANUAL	3000	BUTTON ,OFFSET,SHUTOFF , ,P	13X13	ABC	.00					
10425928	H	P279T1-4NN	J,P&C	.25	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	ABX	.00					S100000200
10426693	C	239T-6TT	J,P&C	.38	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	15X15	YLS	.00					
10426704	C	118-B-1C0-28	CORNELS	.25	RELIEF		DIR,INLIN, , 400CP,	15X73	A	.00					
10426705	E	40170-2	FUTR-CR	.25	PRES REG	3000	REG,DOM, , , ,		A	.00					
10428500		31581 (1.00)	PACIFIC	1.00	CHECK	1500	LIFT ,INLINE,HORZ,DIR OP,	10X10		.00					
10428515		8550-F8-12T	PACIFIC	2.00	MANUAL		GATE ,INLINE,SHUTOFF ,E-B,N			.00					
10428530		M-6P-X469-2G	VACCO	2.50	MANUAL		GLOBE ,INLINE,FLOW REG, ,N			.00					
10428531		M-6P-X467-2G	VACCO	1.50	MANUAL		GLOBE ,INLINE,FLOW REG, ,N		BC	.00					
10428532		M-6P-X465-2G	VACCO	1.00	MANUAL		GLOBE ,INLINE,FLOW REG, ,N			.00					
10428533		M-6P-X464-2G	VACCO	.00						.00					
10428533		MA-6P-X464-2G	VACCO	.00						.00					
10428534		MA-6P-X463-2G	VACCO	.00						.00					
10428535		NV-6P-401B-2M	VACCO	.00						.00					
10428537		CVL-6P-X469	VACCO	.00						.00					
10428538		CVL-6P-X464	VACCO	.00						.00					
10428542		DL6P3-X465	VACCO	.00						.00					

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAT	SOFT MATL	OTHER
10428546		CVL-6P-X465	VACCO	.CO						.00					
10428549	-	HP299T1-6TT	J,P&C	.38	CHECK	6000	POPPET,INLINE,ANY ,DIR OP,	27X27	BC	.00	S	10	00	02	00
10428553		NVA-6P-462-2G	VACCO	.CO						.CO					
10428554		NVA-6P-401-2G	VACCO	.00						.00					
10428556		M-6P-X466-2G	VACCO	.CO						.CO					
10428577		M02T-F461O	VACCO	.00						.00					
10428581		BPR-6P-X466-04	VACCO	.00						.00					
10428583		CVL-02P-F468	VACCO	.OC						.00					
10428623		581138	CARDAIR	.00						.00					
10430079-1	AA	5159T1-6NV-40	J,P&C	.38	RELIEF		DIR,INLIN, , 40CP,	20X19	ABC	.06	0A	S1	S1	S1	0200
10430079-1	AA	5159T1-6ZV-40	J,P&C	.38	RELIEF		DIR,INLIN, , 40CP,	20X19	ABC	.06	0A	S1	S1	S1	0200
10430079-10	N	5159T1-4NV-850	J,P&C	.25	RELIEF		DIR,INLIN, , 850CP,	18X19	ABC	.03	0A	S1	S1	S1	0200
10430079-10	N	5159T1-4NV-280	J,P&C	.25	RELIEF		DIR,INLIN, , 280CP,	18X19	ABC	.03	0A	S1	S1	S1	0200
10430079-12	N	5159T1-6NV-70	J,P&C	.38	RELIEF		DIR,INLIN, , 70CP,	18X19	ABC	.06	0A	S1	S1	S1	0200
10430079-12	N	5159T1-6ZV-70	J,P&C	.38	RELIEF		DIR,INLIN, , 70CP,	18X19	ABC	.06	0A	S1	S1	S1	0200
10430079-14	N	5159T1-4NV-84	J,P&C	.25	RELIEF		DIR,INLIN, , 84CP,	18X19	ABC	.03	0A	S1	S1	S1	0200
10430C79-18	N	5159T1-4NV-1250	J,P&C	.25	RELIEF		DIR,INLIN, ,1250CP,	18X19	ABC	.03	0A	S1	S1	S1	0200
10430079-2	AA	5159T1-4ZV-250	J,P&C	.25	RELIEF		DIR,INLIN, , 250CP,	20X19	ABC	.03	0A	S1	S1	S1	0200
10430079-2	AA	5159T14NV-250	J,P&C	.25	RELIEF		DIR,INLIN, , 250CP,	20X19	ABC	.03	0A	S1	S1	S1	0200
10430079-3	N	5159T1-4NV-140	J,P&C	.25	RELIEF		DIR,INLIN, , 140CP,	18X19	ABC	.03	0A	S1	S1	S1	0200
10430079-3	N	5159T1-4ZV-140	J,P&C	.25	RELIEF		DIR,INLIN, , 140CP,	18X19	ABC	.03	0A	S1	S1	S1	0200

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAT	SOLT	OTHR
10430079-5	AA	5159T1-4NV-70	J,P&C	.25	RELIEF		DIR,INLIN, , 70CP,	20X19	ABC	.03 OA	S1S1S10200				
10430079-5	AA	5159T1-4ZV-70	J,P&C	.25	RELIEF		DIR,INLIN, , 70CP,	20X19	ABC	.03 OA	S1S1S10200				
10430079-6	N	5159T1-4NV-600	J,P&C	.25	RELIEF		DIR,INLIN, , 600CP,	18X19	ABC	.03 OA	S1S1S10200				
10430079-7	N	1-2133(211-48-4AA)175	SAGE	.25	RELIEF		DIR,INLIN, , 175CP, ADJ CP	18X19	ABC	.03 OA	S1S1S10200				
10430079-8	N	5159T1-4NV-55	J,P&C	.25	RELIEF		DIR,INLIN, , 55CP,	18X19	ABC	.03 OA	S1S1S10200				
10430079-9	N	5159T1-4NV-90	J,P&C	.25	RELIEF		DIR,INLIN, , 90CP,	18X19	ABC	.03 OA	S1S1S10200				
10430079-9	N	5159T1-4ZV-90	J,P&C	.25	RELIEF		DIR,INLIN, , 90CP,	18X19	ABC	.03 OA	S1S1S10200				
10430216-11	R	2-922	FL-MECH	1.00	RELIEF	1050	DIR,ANGLE, , 700CP,	19X19	ABC	.50 OD	S1S1121400				
10430216-13	R	2-921	FL-MECH	1.00	RELIEF	473	DIR,ANGLE, , 315CP,	19X19	ABC	.50 OD	S1S1121400				
10430216-14	R	2-925	FL-MECH	1.00	RELIEF	615	DIR,ANGLE, , 410CP,	19X19	ABC	.50 OD	S1S1121400				
10430216-15	R	2-1579	FL-MECH	1.00	RELIEF	1800	DIR,ANGLE, ,1200CP,	19X19	ABC	.50 OD	S1S1121400				
10430216-17	R	2-1582	FL-MECH	1.00	RELIEF	110	DIR,ANGLE, , 75CP,	19X19	ABC	.50 OD	S1S1121400				
10430216-3	R	2-847	FL-MECH	1.00	RELIEF	1313	DIR,ANGLE, , 875CP,	19X19	ABC	.50 OD	S1S1121400				
10430216-4	R	2-917	FL-MECH	1.00	RELIEF	210	DIR,ANGLE, , 140CP,	19X19	ABC	.50 OD	S1S1121400				
10430216-5	R	2-916	FL-MECH	1.00	RELIEF	5250	DIR,ANGLE, ,3500CP,	19X19	ABC	.50 OD	S1S1121400				
10430216-6	R	2-846	FL-MECH	1.00	RELIEF	90	DIR,ANGLE, , 60CP,	19X19	ABC	.50 OD	S1S1121400				
10430216-9	R	2-1084	FL-MECH	1.00	RELIEF		DIR,ANGLE, , 100CP,	19X19	ABC	.50 OD	S1S1121400				

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAT	SOL	OTHER
10430233-2	N	H299T1-6TT	J,P&C	.38	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	ABC	.00	S1S1S10200				
10430233-2	N	299T1-6NN	J,P&C	.38	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	ABC	.00	S1S1S10200				
10430233-3	N	H299T1-8NN	J,P&C	.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	ABC	.00	S1S1S10200				
10430233-3	N	H299T1-8TT	J,P&C	.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	ABC	.00	S1S1S10200				
10430233-3	N	299T1-8NN	J,P&C	.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	ABC	.00	S1S1S10200				
10430233-3	N	299T1-8TT	J,P&C	.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	ABC	.00	S1S1S10200				
10430233-4	N	299T1-12NN	J,P&C	.75	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	ABC	.00	S1S1S10200				
10430233-5	N	H299T1-16TT	J,P&C	1.00	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	ABC	.00	S1S1S10200				
10430233-5	N	299T1-16NN	J,P&C	1.00	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	ABC	.00	S1S1S10200				
10430234-2	K	220T-6TT	J,P&C	.38	CHECK	4000	POPPET,INLINE,ANY ,DIR OP,	27X27	ABC	.00	S1S1S10200				
10430234-3	K	230T-8TT	J,P&C	.50	CHECK	4000	POPPET,INLINE,ANY ,DIR OP,	27X27	ABC	.00	S1S1S10200				
10434448	J	524255	CLARY	.25	DIR CONT	3000	SHUTTLE	19X19	ABC	.00	A1SUA10200				
10436299	A2	259T-12TT	J,P&C	.25	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	27X27	X	.00	S1S1S10200				
10437694	L	NT-180-6C-787	ROBBINS	.38	MANUAL	6000	GLOBE ,3-PORT,METERING,VAC,P	19X19	ABC	.3CV	S1S1140200				
10437737-2	F	229644-12 MOD MV159KA	MAROTTA	.75	SOLENOID	3000	SGL,2W,2P,MP,DIR ACT ,	19X19	ABC	.60 00	S1S1140200				
10437739-2	N	223634 MOD MV130V	MAROTTA	.75	SOLENOID	3000	SGL,2W,2P,MP,DIR ACT ,	19X19	ABC	.60 00	S1S1140200				
10437798-2	H	118-B-100-7 65PSI	CORNELS	.25	RELIEF		DIR,INLIN, , 65CP,	18X73	ABC	.00	A0000000200				
10437798-3	H	118-B-100-7 55PSI	CORNELS	.25	RELIEF		DIR,INLIN, , 55CP,	18X73	ABC	.00	A0000000200				

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY MATL	SEAT MATL	STEM MATL	O-RING MATL
10437799-1	G	117-B-100-10	CORNELS	.25	RELIEF		DIR,INLIN, , 875CP,	18X73	ABC	.00				
10437799-3	G	117-B-100-4	CORNELS	.25	RELIEF		DIR,INLIN, ,1000CP,	18X73	ABC	.00				
10437835-2	H	146050-34	LEONARD	.25	PRES REG	3000	REG,SPR,RLV,SET, , 140/20	19X19	ABC	.00				
11M00567		1-1-6	REPUBLC	.50	FLOW REG	3000	FLO-REST,HYDR ,1W,ADJ	10X10	X	.00				
11M00567		7-31-67-1	REPUBLC	.50	FLOW REG	3000	FLO-REST,HYDR ,1W,ADJ	10X10	X	.00				
11M00681	B	660-12-SS-1	REPUBLC	.75	RELIEF	7000	DIR,ANGLE, , CP, ADJ CP	13X13	B	.00				
11M00682-1	A	226394-3 RV78E E0 2865	MAROTTA	.50	PRES REG	6000	REG,SPR,RLV,SET, ,2330/1430	13X13	B	.00				
11M00777	-	229894-6000 MOD RV53DA	MAROTTA	1.50	PRES REG	500	REG,DOM,RLV,PRS, ,	13X13	BX	.00				
11M00778-1	B	806133-11122MOD MV557H	MAROTTA	1.00	SOLENOID	500	SGL,3W,2P,NC,DIR ACT ,	13X13	B	.60	OD			
11M00778-3	B	806133-21112MOD MV557H	MAROTTA	1.00	SOLENOID	3000	SGL,3W,2P,NC,DIR ACT ,	13X13	B	.60	OD			
11M00780	A	499T-8TTB	J,P&C	.50	DIR CONT	1500	SHUTTLE	27X13	B	.00				
11M00782	C	280147 MOD MV130ED	MAROTTA	.38	SOLENOID	1500	DBL,2W,2P,NO,DIR ACT ,	13X13	X	.16	OD			
11M00783	-	805764-1112 MOD MV510H	MAROTTA	.50	SOLENOID	1500	SGL,2W,2P,NC,DIR ACT ,P/I	13X13	AX	.23	OD			
11M00784	A	32310-5	STERER	.50	SOLENOID	1500	DBL,4W,3P,NC,DIR ACT ,S/P	13X13	X	.00				
11M00785	B	803664-1 MOD MV583H	MAROTTA	.50	SOLENOID	1500	SGL,3W,2P,NC,DIR ACT ,M/S	13X13	AX	.19	OD			
11M00787	B	806246 MV519A-1AE02933	MAROTTA	1.00	SOLENOID	1500	DBL,4W,3P,NC,DIR ACT ,M/S	13X13	X	.00				
11M00788	A	11420-4	STERER	.25	SOLENOID	1050	SGL,4W,2P,CO,PNEU PIL,	23X23	B	.00				
11M00789	A	231074-34 MOD PRV4M	MAROTTA	.25	RELIEF	1500	DIR,INLIN, , CP,1200/1700	19X73	B	.00				
11M00790	B	280157-J11RV31HAE02962	MAROTTA	.25	PRES REC	10000	REG,SPR,RLV,MAN, ,150/0	13X13	B	.00				
11M00792	A	280158-11 RV78BM-1	MAROTTA	.50	PRES REC	1000	REG,SPR,RLV,MAN, , 100/35	13X13	X	.00				
11M00793-1	A	225844-531 MOD PRV47	MAROTTA	1.00	RELIEF	750	DIR,INLIN, , CP, 5/750	13X13	X	.00				

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NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE BODY	MATL TRIM	SEAL	SOAK TEMP	HARD
11M00793-3	A	225844-532 MOD PRV47	MAROTTA	1.00	RELIEF	750	DIR,INLIN, , CP, 10/750	13X13	X	.00	A	1	A	1000	200
11M00795-1	A	MV100ET-P-HL	CONTROL	.38	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	13X13	BX	.30	OD	S	100	120	200
11MC0795-3	A	MV1008T-P-HL	CONTROL	.50	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	13X13	BX	.30	OD	S	100	120	200
11M00795-7	A	MV1115T-P-HL	CONTROL	1.00	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	13X13	BX	.50	OD	S	100	120	200
11MC0795-7	A	MV6016T-P(MV6116T-P)	CONTROL	1.00	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	13X13	BX	.50	OD	S	100	120	200
11M00796	A	645B-5-12-T	REPUBLC	.75	RELIEF	650	DIR,ANGLE, , 450CP, 430/650	13X13	X	.00		S	100	001	200
11MC0798	A	412-1D3-6	REPUBLC	1.00	CHECK	1500	POPPET,INLINE,ANY ,PIL OP,	10X10	X	.00		A	000	000	200
11M00799-1	-	232783-424 MOD CV33	MAROTTA	.25	CHECK	200	POPPET,INLINE,ANY ,DIR OP,	27X73	B	.00		S	100	000	200
11MC0799-5	-	232783-824 MOD CV33	MAROTTA	.50	CHECK	200	POPPET,INLINE,ANY ,DIR OP,	27X73	B	.00		S	100	000	200
11M00799-5	-	232783-834 MOD CV33	MAROTTA	.50	CHECK	200	POPPET,INLINE,ANY ,DIR OP,	27X73	B	.00		S	100	000	200
11M00800	B	806157-10458 MOD554H3C	MAROTTA	1.50	FLOW REG	1000	SHUTOF, ,PNEU ACT,PIL,	13X13	X	.00		S	100	000	200
11M00802	A	4-K14-6-SV	FL-CONT	.75	CHECK	1500	POPPET,ANGLE ,ANY ,PIL OP,	10X10	X	.00		C	0C0	C00	600
11MC0808-3	A	MV6004T-P	CONTROL	.25	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	13X13	BX	.18	OD	S	1S1	001	202
11M00808-5	A	MV6006T-P	CONTROL	.38	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	13X13	BX	.31	OD	S	1S1	001	202
11M00808-7	A	MV6008T-P	CONTROL	.50	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	13X13	BX	.34	OD	S	1S1	001	202
11M00816	-	803664-10461 MODMV583H	MAROTTA	.50	SOLENOID	1500	SGL,3W,2P,NC,DIR ACT ,S/P	13X13	AX	.19	OD	S	1S1	140	200
11MC0817-1	A	488-4SST-2	REPUBLC	.25	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	27X27	BX	.00		S	100	001	200
11M00817-15	A	488-8SST-40	REPUBLC	.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	27X27	BX	.00		S	100	001	200
11M00817-3	A	488-6SST-2	REPUBLC	.38	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	27X27	BX	.00		S	100	001	200
11MC0817-5	A	488-8SST-2	REPUBLC	.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	27X27	BX	.00		S	100	001	200

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY MTL	SEAT MATL	SEAL MATL	OTHER MATL
11M00817-7	A	488-16SST-10	REPUBLC	1.00	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	27X27	BX	.00	S	10	00	12 00
11M00817-9	A	488-15SST-2	REPUBLC	1.00	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	27X27	BX	.00	S	10	00	12 00
11M00818	-	80E118 MOD MV526B-1A	MAROTTA	1.00	SOLENOID	1500	SOL,3W,2P,NC,PNEU ACT,P/I	13X13	B	.80 OD	S	1S	10	00 200
11M00821	-	90BA5	ROBSHAW	1.00	FLOW REG	125	FLO-REST,HYDR ,1W,ADJ	10X10	N	.00	B	0B	00	00 082
11M00822	-	2D4022-11	MAROTTA	.75	CHECK	1500	POPPET,INLINE,ANY ,DIR OP,	27X27	X	.00	S	10	00	00 200
11M00823-1		VF1293-X-1 ASSY C24896	DYNEX	.00						.00				
11M00846-3	A	493-24SST-2	REPUBLC	1.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	13X13	BX	.00	S	10	00	12 00
11M00846-7	A	493-24SST-40	REPUBLC	1.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	13X13	BX	.00	S	10	00	12 00
11M00847		6270-0107-15	LADISH	.00						.00				
11M00870	A	805184-10474 MOD LV583	MAROTTA	.50	DIR CONT	1500	SELECT,3W,2P,MAN ACT ,DIR,	13X13	X	.21 OD	S	10	01	40 200
11M00871	A	R8071B-8HS27	REPUBLC	.50	DIR CONT	1000	SELECT,4W,3P,MAN ACT ,DIR,	13X13	X	.00	C	10	00	00 200
11M00959	B	8-2967-1	REPUBLC	.50	FLOW REG	1500	FLO-REST,PNEU ,1W,ADJ	13X13	B	.25 OD	S	10	00	06 00
75M00177	B	P6-698-3	CIRSEAL	.38	CHECK	2000	POPPET,INLINE,ANY ,DIR OP,	27X73	ABC	.00				
75M00177	B	P-5-698-3	J,P&C	.38	CHECK	2000	POPPET,INLINE,ANY ,DIR OP,	27X73	ABC	.00				
75M00189	A	279T-16TT	J,P&C	1.00	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	27X27	ABX	.00	S	10	00	02 00
75M00442	C	10C12L	FLODYNE	1.00	MANUAL	1500	BALL ,INLINE,SHUTOFF , ,P	13X13	X	.00	A	1S	11	20 200
75M00452	A	279T-6TT	J,P&C	.38	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	15X15	X	.00	S	1S	1S	10 200
75M00455	C	10C15	FLODYNE	1.00	SOLENOID	1500	SOL,2W,2P,NC,PNEU ACT,P/I	13X13	X	.00	A	1S	11	20 200
75M00497	D	10C12R	FLODYNE	1.00	MANUAL	1500	BALL ,INLINE,SHUTOFF , ,P	13X13	X	.00	A	1S	11	20 200
75M01305-1	K	SSNA25C-4C-787	ROBBINS	.25	MANUAL	5000	GLOBE ,ANGLE ,METERING, ,P	19X19	ABC	.13 OD	S	1S	11	40 200
75M01305-2	K	SSNA375A-6C-768	ROBBINS	.38	MANUAL	5000	GLOBE ,ANGLE ,METERING, ,P	19X19	ABC	.31 OD	S	1S	11	40 200

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NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAL	VALVE MATL ACT	VALVE MATL O RING
75M01305-3	K	SSNA500A-8C-768	ROBBINS	.50	MANUAL	5000	GLOBE ,ANGLE ,METERING, ,P	19X19	ABC	.31 OD	S	1	S	1	40200
75M01351-1	J	202873-113 MV74 E03265	MAROTTA	.25	SOLENOID	3000	SGL,3W,2P,MP,DIR ACT ,	18X18	ABC	.12 OD	A	1	00	140	200
75M01351-2	-	229584-1 MOD MV174	MAROTTA	.25	SOLENOID	3000	SGL,3W,2P,MP,DIR ACT ,	18X18	ABC	.12 OD	S	1	00	140	200
75M01356-1	G	11115K0668 MOD 2018	GROVE	1.00	PRES REG	3000	REG,DOM,N-R,PRS, ,3000/0	19X19	ABC	.38 OD	S	1	S	1	S11302
75M01356-2	G	11115K0688 MOD 2018	GROVE	1.00	PRES REG	3000	REG,DOM, ,PRS, ,3000/0	19X19	ABC	.38 OD	S	1	S	1	30226
75M01720-4	H	SSNG250-4C-768	ROBBINS	.25	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	ABC	.13 OD	S	1	S	1	40200
75M01720-4	H	SSNG250-4C-787	ROBBINS	.25	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	ABC	.13 OD	S	1	S	1	40200
75M01720-6	H	SSNG375A-6C-768	ROBBINS	.38	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	ABC	.31 OD	S	1	S	1	40200
75M01720-6	H	SSNG375A-6T-768	ROBBINS	.38	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	ABC	.31 OD	S	1	S	1	40200
75M01720-8	H	SSNG500A-8C-768	ROBBINS	.50	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	ABC	.31 OD	S	1	S	1	40200
75M01805-1		SSKG250-4C-787	ROBBINS	.25	MANUAL		GLOBE , , , ,		ABC	.00					
75M02156-2	E	M-12951-N MOD 94W	GROVE	.38	PRES REG	6000	REG,DOM,N-R,PRS, ,6000/0	19X19	ABC	.00	S	1	S	1	31700
75M02156-3	E	M-12951-P MOD 94W	GROVE	.50	PRES REG	6000	REG,DOM,N-R,PRS, ,6000/0	19X19	ABC	.00	S	1	S	1	31700
75M02172		5159T-16TB-60	CIRSEAL	.00						.00					
75M02172-1	H	5159T1-6NN-38C	J,P&C	.38	RELIEF	2400	DIR,INLIN, , 38GCP, 312/490	16X18	ABC	.06	0A	S	1S	10200	
75M02172-3	H	5159T1-6NN-850	J,P&C	.38	RELIEF	2400	DIR,INLIN, , 850CP, 668/1032	18X18	ABC	.06	0A	S	1S	10200	
75M02172-5	H	5159T1-6ZZ-150	CIRSEAL	.38	RELIEF	2400	DIR,INLIN, , 150CP,	18X18	ABC	.06	0A	S	1S	10200	
75M02172-7	H	5159T1-6NN-2040	J,P&C	.38	RELIEF	2400	DIR,INLIN, ,2040CP,1530/2400	18X18	ABC	.03	0A	S	1S	10200	
75M02172-8	H	5159T1-6NN-1500	J,P&C	.38	RELIEF	2400	DIR,INLIN, ,1500CP,1250/1950	18X18	ABC	.03	0A	S	1S	10200	
75M02172-9	H	5159T1-6NN-220	J,P&C	.38	RELIEF	2400	DIR,INLIN, , 220CP, 200/300	18X18	ABC	.06	0A	S	1S	10200	

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NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY TRIM SEAL SPRING OTHER ** ** ** ** **
75M02661	B	HP279T1-4VN	J,P&C	.25	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	19X18	ABC	.00	S1S1S10200
75M02663	A	40051-4	FUTR-CR	.25	PRES REG	3000	REG,SPR,RLV,SET, , 75/15	13X13	ABC	.00	A0000002C0
75M02675	B2	HP279T1-4TT	J,P&C	.25	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	27X27	ABC	.00	S1S1S10200
75M02676	A2	HP279T1-6TT	J,P&C	.38	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	27X27	ABC	.00	S1S1S10200
75M02711-2	D	4PY281-280-25	HOKE	.25	MANUAL	3000	NEEDLE ,INLINE,METERING, ,P	10X10	ABC	.13 OD	S1S1S11200
75M02802	G	229664 MOD MV173K	MAROTTA	1.00	SOLENOID	3000	SGL,2W,2P,NC,DIR ACT ,M/S	18X18	ABC	1.05 OD	S1B5141202
75M02986-1	C	223194 MOD MV123B	MAROTTA	.38	SOLENOID	3000	SGL,3W,2P,MP,PNEU PIL,	13X13	BCX	.00	A1S1001202
75M02986-2	C	223194 MOD MV1233	MAROTTA	.38	SOLENOID	3000	SGL,3W,2P,MP,HYDR PIL,	13X13	BCX	.00	A1S1001202
75M03568	A	30130	FUTR-CR	.25	MANUAL	3000	BUTTON ,OFFSET,SHUTOFF , ,F	13X13	X	.00	S0A0S01800
75M04253	B	10019	FLODYNE	1.00	FLOW REG	1500	SHUTOF,BALL ,CAM ACT ,DIR,	13X13	X	.00	A0S0001202
75M04315		1-2028-4	SAGE	.00						.00	
75M04406-PAV-1	-	605-8D 1/2MPTX1/2FLARE	SUPEROR	.50	MANUAL	500	GLOBE ,ANGLE ,SHUTOFF , ,	09X34	Z	.00	B0000000D0
75M04406-PAV-2		A-15168 2 1/8 ODF	MUELLER	.00						.00	
75M04406-PAV-4	-	193-15S 1-5/8 ODF	SUPEROR	1.63	MANUAL	375	GLOBE ,ANGLE ,SHUTOFF , ,	79X79	Z	.00	
75M04406-PGLV-5	-	A-14838 1/4 ODF	MUELLER	.25	MANUAL	375	DIPHRAM,INLINE,SHUTOFF , ,N	34X34	Z	.00	
75M04406-PGLV-6		FIG 123 (0.25)	LUNKHMR	.00						.00	
75M04406-PGLV-7		FIG 123 (1.50)	LUNKHMR	.00						.00	
75M04406-PGLV-8		FIG 123 (3.00)	LUNKHMR	.00						.00	
75M04406-PPR-1	B	137-3 (4.00)	MASON-N	4.00	PRES REG	100	PRS-CT,GLOBE,PNEU ACT,PIL,	62X62	B	.00	F1S1000000
75M04406-PPR-11	A	10927EA3A MOD 15L	GROVE	.38	PRES REG	3000	REG,SPR,RLV,MAN, , 300/0	13X13	B	.00	S1S1000000
75M04406-PPR-12	B	M-12951-A MOD 94	GROVE	.50	PRES REG	3000	REG,DOM,RLV,PRS, , 300/0	13X13	B	.00	S1S3001700

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAT	SOLT	OTHR
75M04406-PPR-4	B	1029 V-50138	HONEYWL	4.00	DIR CONT	125	SELECT,3W,2P,MOTR ACT,DIR,	60X60	N	.00	B0S1001200				
75M04406-PSV-1	B	205714-5 MV140 EC2431	MAROTTA	.38	SOLENOID	150	SGL,3W,2P, ,DIR ACT ,	19X19	B	.19 OD	S100141700				
75M04406-PSV-4	B	HMA42S3-1.63	SPORLAN	1.63	SOLENOID	300	SGL,2W,2P,NC,HYDR PIL,	76X76	I	.00	C000000000				
75M04406-PSV-6	B	8300A74-G	ASCO	.50	SOLENOID	8	SGL,3W,2P,NO,DIR ACT ,	10X10	AB	.00	B000000000				
75M04406-PSV-7	B	229604 MOD MV123K	MAROTTA	.38	SOLENOID	750	SGL,3W,2P, ,DIR ACT ,S/P	19X19	B	.19 OD	S100141700				
75M04676-NCAV-1A	H	90633-10-NPT-LOX	FUTR-CR	.25	DIR CONT	400	CALIBRATN	10X10	DE	.00	S1S1131200				
75M04839-1	B	140200-1	APCO	1.50	PRES REG	6000	REG,DOM,N-R,PRS, ,5500/0	68X68	ABC	.38 OD	S0S0140212				
75M04839-4	B	140200-4	APCO	1.50	PRES REG	6000	REG,DOM,N-R,PRS, ,5500/0	68X68	ABC	1.00 OD	S0S0140212				
75M05365-4	D	277T1-8NN	J,P&C	.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	X	.00	S100001202				
75M05365-6	D	277T1-12NN	J,P&C	.75	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	X	.00	S100001202				
75M05432-FCV-6		A488-12SST	REPUBLC	.75	CHECK	200	POPPET,INLINE, , ,		Y	.00					
75M05432-FNV-1		138-1/4-SS	REPUBLC	.25	MANUAL	200	LEVER , , , ,			.00					
75M05432-FNV-2		209X-12SS	REPUBLC	.75	MANUAL	2000	GLOBE , , , ,			.00					
75M05432-FNV-3		816-3-3-8-TT	DRAGON	.50	MANUAL	200	NEEDLE , , , ,		Y	.00					
75M05752-HAV-1	W	SER1700,DWGA4502(2.0)	ANNIN	2.00	FLOW REG	150	FLO-CT,ANGLE,PNEU ACT,POS,J/C	87X87	HFG	.00	S1S1131200				
75M05752-HCLV-1	V	10-U-F4-V-L	CHEMTRN	4.00	FLOW REG	150	FLO-CT,GLOBE,PNEU ACT,POS,CRY	62X62	FGH	180.0CV	S1S1131200				
75M05752-HCV-10	W	CVT-3P-462P	VACCO	.38	CHECK	1500	POPPET,INLINE,ANY ,DIR OP,	10X10	BC	.00	S1S1121200				
75M05752-HCV-11	W	K220T-04PP-2	J,P&C	.25	CHECK	1500	POPPET,INLINE,ANY ,DIR OP,	10X10	BC	.00	S1S1121200				
75M05752-HCV-11	W	99517 (0.25)	VACCO	.25	CHECK	1500	POPPET,INLINE,ANY ,DIR OP,	10X10	BC	.00	S1S1121200				

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY TRIM SEAT SOFT HARD
75M05752-HCV-12	W	99517 (0.50)	VACCO	.50	CHECK	1500	POPPET,INLINE,ANY ,DIR OP,	10X10	BC	.00	S1S1121200
75M05752-HCV-2	U	AL1100-12K-WE (2.00)	PACIFIC	2.00	CHECK	150	SWING ,INLINE,HORZ,DIR OP,CRY	90X90	FGH	.00	A0A0A00000
75M05752-HCV-4	U	AL1100-12K-WE (3.00)	PACIFIC	3.00	CHECK	150	SWING ,INLINE,HORZ,DIR OP,CRY	90X90	FGH	.00	A0A0A00000
75M05752-HCV-9	V	K220T-8PP-2	J.P&C	1.00	CHECK	1500	POPPET,INLINE,ANY ,DIR OP,	10X10	BC	.00	S1S1S11200
75M05752-HCV-9	V	99517 (1.00)	VACCO	1.00	CHECK	1500	POPPET,INLINE,ANY ,DIR OP,	10X10	BC	.00	S1S1S11200
75M05752-HGLV-11	W	48422 (0.50)	POWELL	.50	MANUAL	275	GLOBE ,INLINE,SHUTOFF ,E-B,N	10X10	D	2.8CV	S1S1131200
75M05752-HGLV-12	W	48422 (1.00)	POWELL	1.00	MANUAL	275	GLOBE ,INLINE,SHUTOFF ,E-B,N	62X62	D	10.5CV	S1S1131200
75M05752-HGLV-13	W		PACIFIC	1.00	MANUAL	275	GLOBE ,INLINE,SHUTOFF , ,N	27X27	B	10.5CV	S1S1131200
75M05752-HGLV-13	W	70-2475KD	POWELL	1.00	MANUAL	275	GLOBE ,INLINE,SHUTOFF , ,N	27X27	B	10.5CV	S1S1131200
75M05752-HGLV-14	W	5071BKX06T	APCO	.38	MANUAL	150	GLOBE ,INLINE,SHUTOFF , ,P	13X13	D	.00	S1S1131200
75M05752-HGLV-15	W	5071CKX04T	APCO	.25	MANUAL	150	GLOBE ,INLINE,SHUTOFF ,CRY,P	13X13	H	.00	S1S1131200
75M05752-HGLV-16	W	5071CKX08P	APCO	.50	MANUAL	115	GLOBE ,INLINE,SHUTOFF ,CRY,P	10X10	H	.00	S1S1131200
75M05752-HGLV-18	W	MOD G171CE8-6-1CKWE	ANNIN	1.50	MANUAL	275	GLOBE ,INLINE,FLOW REG,J/C,	89X89	H	25.0CV	S1S1131200
75M05752-HGLV-19	W	701-E3 (.38)	PACIFIC	.38	MANUAL	275	GLOBE ,INLINE,SHUTOFF ,CRY,N	10X10	H	.00	S1S1131200
75M05752-HGLV-2	W	DWG A4509(4.00)SCH 5DL	ANNIN	4.00	FLOW REG	225	FLO-CT,GLOBE,PNEU ACT,POS,J/C	88X88	H	220.0CV	S1S1131200
75M05752-HGLV-23	W	G1710YTJ-10K-3070-WE5	PACIFIC	4.00	FLOW REG	150	FLO-CT,Y-GLO,PNEU ACT,DIR,J/C	88X88	H	270.0CV	S1S1131200
75M05752-HGLV-24	W	G171CJYT-10K-GC7G-WE	PACIFIC	3.00	FLOW REG	150	FLO-CT,Y-GLO,PNEU ACT,DIR,J/C	88X88	H	162.0CV	S1S1131200
75M05752-HGLV-28	T	G171CJYT-10K-GC7G	PACIFIC	4.00	FLOW REG	150	FLO-CT,Y-GLO,PNEU ACT,DIR,J/C	88X88	H	270.0CV	S1S1131200
75M05752-HGLV-30	T	G1710YTJ-10K-GL7E-WE	PACIFIC	1.50	FLOW REG	150	FLO-CT,Y-GLO,PNEU ACT,DIR,J/C	88X88	H	52.0CV	S1S1131200
75M05752-HGLV-32		70-2474KDSE	POWELL	1.00	MANUAL	400	GLOBE , , , ,		F	.00	
75M05752-HGLV-53		G1710YTJ-10K-3070-WE5	PACIFIC	4.00	FLOW REG	150	FLO-CT,Y-GLO, , ,		H	.00	

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE BODY	MATL TRIM	SEAL	ACTR	OTH
75M05752-HGLV-9	W	710Y	PACIFIC	4.00	MANUAL	150	Y-GLOBE,INLINE,FLOW REG,J/C,N	88X88	H	300.0CV	S	1	S	1	31200
75M05752-HGV-2	W	48422 (3.00)	POWELL	3.00	MANUAL	150	GATE ,INLINE,SHUTOFF ,CRY,N	62X62	H	.00	S	1	S	1	1200
75M05752-HRV-1	W	D-10D/L3 (120-CP)	LONEGRN	1.00	RELIEF	150	DIR,ANGLE,CRY, 120CP, ADJ CP	62X62	H	.11	0A	S	1	S	1S100
75M05752-HRV-4	W	D-10H/L3 (100-CP)	LONEGRN	1.50	RELIEF	150	DIR,ANGLE,CRY, 100CP, ADJ CP	62X62	H	.79	0A	S	1	S	1S100
75M05752-HRV-5	W	MOD 1905 E/L3	LONERGN	1.00	RELIEF	150	DIR,ANGLE,CRY, 100CP, ADJ CP	62X62	H	.20	0A	S	1	S	1S100
75M05752-HRV-5	W	1905 E/L3	MMM	1.00	RELIEF	150	DIR,ANGLE,CRY, 100CP, ADJ CP	62X62	H	.20	0A	S	1	S	1S100
75M05752-HRV-6	W	D-10F/L3 (100-CP)	LONEGRN	1.50	RELIEF	150	DIR,ANGLE,CRY, 100CP, ADJ CP	62X62	H	.31	0A	S	1	S	1S100
75M05752-HRV-7	W	41JS23-2-4-E	ANDERWD	.25	RELIEF	150	DIR,ANGLE, , 150CP,	13X13	H	.01	0A	S	1	S	1S100
75M05752-HSOV-2		11713	ROYAL	3.00	FLOW REG		SHUTOF, ,PNEU ACT, ,		BC	.00					
75M05752-LCV-6		P-X462	VACCO	.00						.00					
75M05867-FBV-2	D	D-2158-C	EFCO	4.00	FLOW REG	200	SHUTOF,BALL ,PNEU ACT,DIR,	61X61	Y	.00	S	1	S	1	20200
75M05867-FCLV-1		MOD 1660 (4.00)	ANNIN	4.00	FLOW REG	200	FLO-CT,GLOBE,PNEU ACT,POS,		Y	.00					
75M05867-FCV-3	K	2433SS (4.00)	POWELL	4.00	CHECK	200	SWING ,INLINE,HORZ,DIR OP,	61X61	Y	.00	S	1	S	1	2C2
75M05867-FCV-4	-	S-1226	V&P	3.00	CHECK	200	POPPET,INLINE,ANY ,DIR OP,	61X61	Y	.00	S	1	B	3	S10000
75M05867-FCV-5	D	DE-101	FLOMATC	1.50	CHECK	200	LIFT ,OFFSET,HORZ,DIR OP,	62X62	Y	.00	S	1	S	1	060000
75M05867-FGV-4	H	2453SG (4.00)	POWELL	4.00	MANUAL	200	GATE ,INLINE,SHUTOFF , ,N	61X61	Y	.00	S	1	S	1	121200
75M05867-FGV-5	H	2453SG (3.00)	POWELL	3.00	MANUAL	200	GATE ,INLINE,SHUTOFF , ,N	61X61	Y	.00	S	1	S	1	121200
75M05867-FGV-6	-	2491	POWELL	1.50	MANUAL	200	GATE ,INLINE,SHUTOFF , ,N	61X61	Y	.00	S	1	B	1	S11200
75M05867-FNV-1	J	138-1/4-SS	REPUBLC	.25	MANUAL	200	LEVER ,INLINE,SHUTOFF , ,P	27X27	Y	.00	S	1	S	1	121200
75M05867-FNV-2	J	209X-12SS	REPUBLC	.75	MANUAL	200	GLOBE ,OFFSET,METERING, ,P	27X27	Y	.00	S	1	S	1	S11200
75M05867-FPR-1	-	99-45 HG-10	FISHER	2.00	PRES REG	100	REG,DOM, ,PRS, , 100/2	61X61	B	.00	F	1	C	U	B017S0

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY MATL SEAT MATL SOLENOID MATL
75M05867-FRV-1	-	A649XB-4-12T	REPUBLC	.75	RELIEF	200	DIR,ANGLE, , 200CP, 115/250	27X27	Y	.00	S1S1S11200
75M05867-FRV-2	-	A649X3-3-12T	REPUBLC	.75	RELIEF	200	DIR,ANGLE, , 60CP, 40/125	27X27	Y	.00	S1S1S11200
75M05867-FRV-3		A488-16SST-5	REPUBLC	1.00	CHECK	200	POPPET,INLINE,ANY ,DIR OP,	27X27	Y	.00	S1S1121200
75M05868	-	10989A068A MOD 202B	GROVE	1.00	PRES REG	6000	REG,DOM, , , ,		ABC	.00	
75M05869-LBFV-14	P	11636-6	ROYAL	2.00	FLOW REG	350	SHUTOF,BUTRF,PNEU ACT,DIR,	62X62	G	.00	S0S0000000
75M05869-LBFV-16	P	11781-6	ROYAL	3.00	FLOW REG	350	SHUTOF,BUTRF,PNEU ACT,DIR,	62X62	G	.00	S0S0000000
75M05869-LBFV-18	P	2010001	ROYAL	2.00	FLOW REG	350	SHUTOF,BUTRF,PNEU ACT,DIR,	62X62	G	.00	S0S0000000
75M05869-LBFV-22	P			3.00	FLOW REG	350	SHUTOF,BUTRF,PNEU ACT,DIR,	62X62	GH	750.0CV	S0S0000000
75M05869-LBFV-24	P	2010026-6	ROYAL	4.00	FLOW REG	350	SHUTOF,BUTRF,PNEU ACT,DIR,	62X62	G	.00	S0S0000000
75M05869-LCLV-1		MOD 1660 (2.00)	ANNIN	.00						.00	
75M05869-LCLV-2	P	MOD 1660 (3.00)	ANNIN	3.00	FLOW REG	350	FLO-CT,GLOBE,PNEU ACT,DIR,CRY	62X62	G	75.0CV	S1S1S11200
75M05869-LCLV-2	P	1600 (3.00)	ANNIN	3.00	FLOW REG	350	FLO-CT,GLOBE,PNEU ACT,DIR,CRY	62X62	G	75.0CV	S1S1S11200
75M05869-LCLV-3	P	M5221 (1.00)	ANNIN	1.00	FLOW REG	150	FLO-CT,GLOBE,PNEU ACT,POS,J/C	87X87	G	6.0CV	S0S0S00000
75M05869-LCLV-4	P	M5221 (1.00)	ANNIN	1.00	FLOW REG	150	FLO-CT,GLOBE,PNEU ACT,POS,J/C	87X87	G	12.0CV	S0S0S00000
75M05869-LCV-2	P	H40033L4AL113012TASA	PACIFIC	4.00	CHECK	350	SWING ,INLINE,HORZ,DIR OP,CRY	62X62	FG	.00	
75M05869-LCV-4	P	4AL1100-12ASA	PACIFIC	4.00	CHECK	150	SWING ,INLINE,HORZ,DIR OP,CRY	62X62	FG	.00	
75M05869-LCV-5	P	2AL1130-12TASA	PACIFIC	2.00	CHECK	350	SWING ,INLINE,HORZ,DIR OP,CRY	62X62	FG	.00	
75M05869-LGLV-3	P	70-104FE C53287	POWELL	2.00	MANUAL	350	GLOBE , ,SHUTOFF ,CRY,	62X62	FG	.00	
75M05869-LGLV-4	P	700-EB-ASA	PACIFIC	1.00	MANUAL	275	GLOBE ,INLINE,SHUTOFF ,E-B,	62X62	G	10.5CV	S1S1131200
75M05869-LGV-5	P	3S-8550-EB (8-12TASA)	PACIFIC	3.00	MANUAL	150	GATE , ,SHUTOFF ,E-B,	62X62	G	.00	0000120000
75M05869-LGV-6	P	2S-8550-EB (6-12TASA)	PACIFIC	2.00	MANUAL	150	GATE , ,SHUTOFF ,E-B,	62X62	G	.00	0000120000

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE BODY MATL	TRIM MATL	SEAT MATL	SEAL MATL	OTHER MATL
75M05869-LGV-7	P	1S-8551-EB (6-12T)	PACIFIC	1.00	MANUAL	150	GATE , , SHUTOFF ,E-B,	10X10	G	.00	0000120000				
75M05869-LGV-8	P	2S35EB6-12TASA	PACIFIC	2.00	MANUAL	300	GATE , , SHUTOFF ,E-B,	62X62	G	.00	0000120000				
75M05869-LGV-9	P	4S-8550-EB (8-12TASA)	PACIFIC	4.00	MANUAL	150	GATE , , SHUTOFF ,E-B,	62X62	G	.00	0000120000				
75M05869-LRV-1	P	D-10D/L3 (55-CP)	LONERGN	1.00	RELIEF		DIR, CRY, 55CP, ADJ CP	62X62	G	.00					
75M05869-LRV-1	P	FIG 1213 (1.00)	LUNKHMR	1.00	RELIEF		DIR, CRY, 55CP, ADJ CP	62X62	G	.00					
75M05869-LRV-2	P	D-10D/L3 (165-CP)	LONERGN	1.00	RELIEF		DIR, CRY, 165CP, ADJ CP	62X62	G	.00					
75M05869-LRV-2	P	FIG 1213 (1.00)	LUNKHMR	1.00	RELIEF		DIR, CRY, 165CP, ADJ CP	62X62	G	.00					
75M05869-LRV-3	P	D-30F/L3 (300-CP)	LONERGN	1.50	RELIEF		DIR, CRY, 300CP, ADJ CP	62X62	G	.00					
75M05869-LRV-3	P	FIG 1765 (1.50)	LUNKHMR	1.50	RELIEF		DIR, CRY, 300CP, ADJ CP	62X62	G	.00					
75M05869-LRV-4	P	D-30F/L3 (400-CP)	LONERGN	1.50	RELIEF		DIR, CRY, 400CP, ADJ CP	62X62	G	.00					
75M05869-LRV-4	P	FIG 1765 (1.50)	LUNKHMR	1.50	RELIEF		DIR, CRY, 400CP, ADJ CP	62X62	G	.00					
75M05869-LRV-5	P	D-30F/L3 (185-CP)	LONERGN	1.50	RELIEF		DIR, CRY, 185CP, ADJ CP	62X62	G	.00					
75M05869-LRV-5	P	FIG 1213 (1.00)	LUNKHMR	1.50	RELIEF		DIR, CRY, 185CP, ADJ CP	62X62	G	.00					
75M05871-PAV-1	R	20-7163-3 (0.25)	AUTOCLV	.25	MANUAL	6000	GLOBE ,ANGLE ,SHUTOFF , ,	46X46	BC	.00	S1S1S11200				
75M05871-PAV-2	R	20-7164-2	AUTOCLV	.56	MANUAL	6000	GLOBE ,ANGLE ,SHUTOFF , ,	46X46	BC	.00	S1S1S11200				
75M05871-PAV-2	R	20-7173-2	AUTOCLV	.56	MANUAL	6000	GLOBE ,ANGLE ,SHUTOFF , ,	46X46	BC	.00	S1S1S11200				
75M05871-PAV-3	R	20-7163-3 (0.25)	AUTOCLV	.25	MANUAL	6000	GLOBE ,ANGLE ,SHUTOFF , ,	46X46	D	.09 CD	S1S1S11200				
75M05871-PAV-4	R	5073X1007	APCO	.38	MANUAL	6000	GLOBE ,ANGLE ,FLOW REG, ,	13X13	BC	1.6CV	S1S11312S1				
75M05871-PAV-5	R	5075X1005	APCO	1.00	MANUAL	6000	GLOBE ,ANGLE ,FLOW REG, ,	13X13	BC	4.8CV	S1S11312S1				
75M05871-PCN-5		6590	VACCO	.00						.00					

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE BODY MATL	TRIM MATL	SEAT MATL	SOFT PART MATL	O RING MATL
75M05871-PCV-1	P	1-3256	MISSION	.25	CHECK	6000	POPPET,INLINE,ANY ,DIR OP,	46X46	BC	.09 OD	S1S	S11200			
75M05871-PCV-10	D	MOD 6590(2)XXSGR	ANNIN	2.00	CHECK	6000	LIFT ,INLINE,HORZ,DIR OP,	68X68	BC	22.0CV	S1S	113120J			
75M05871-PCV-11	P	1-3524	MISSION	.75	CHECK	6000	POPPET,INLINE,ANY ,DIR OP,	68X68	D	7.0CV	S1S	1S11200			
75M05871-PCV-13	P	1-3530	MISSION	.25	CHECK	6000	POPPET,INLINE,ANY ,DIR OP,	13X46	D	.09 OD	S1S	1S11200			
75M05871-PCV-14	S	G1100-10TASA	PACIFIC	3.00	CHECK	200	SWING ,INLINE, ,DIR OP,	62X62	C	290.0CV	S1S	1S11200			
75M05871-PCV-15	P	1-3529	MISSION	.50	CHECK	6000	,INLINE, ,DIR OP,	13X13	BC	.38 OD	S1S	1S11202			
75M05871-PCV-2	P	1-3527	MISSION	.56	CHECK	6000	POPPET,INLINE,ANY ,DIR OP,	46X46	BC	.31 OD	S1S	1S11200			
75M05871-PCV-3	P	1-3523A MOD 54-12GR	MISSION	.75	CHECK	6000	POPPET,INLINE,ANY ,DIR OP,	68X68	BC	7.0CV	S1S	1S11200			
75M05871-PCV-4	D	MOD 6590(1.5)XXSGR	ANNIN	1.50	CHECK	6000	LIFT ,INLINE,HORZ,DIR OP,	68X68	BC	13.0CV	S1S	1131200			
75M05871-PCV-4	D	LCV-6P-X467	VACCO	1.50	CHECK	6000	LIFT ,INLINE,HORZ,DIR OP,	68X68	BC	13.0CV	S1S	1131200			
75M05871-PCV-5		MOD 6590(2)XXSGR-2.5	ANNIN	.00						.00					
75M05871-PCVA-1		90630-HP-3-LOX	FUTR-CR	.00						.00					
75M05871-PGLV-1		20-7168-2	AUTOCLV	.00						.00					
75M05871-PGLV-10	G	5072X1004-3	APCO	.75	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,	68X68	B	3.8CV	S1S	1131202			
75M05871-PGLV-11	H	MOD 6510(1)XXSGR-1.25	ANNIN	1.25	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,	68X68	D	5.6CV	S1S	1S11200			
75M05871-PGLV-12	V	MOD 6510(2)XXSGR	ANNIN	2.00	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,	68X68	D	22.0CV	S1S	1S11200			
75M05871-PGLV-13	G	5071X100E-4	APCO	.25	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,	13X13	D	.5CV	S1S	1131202			
75M05871-PGLV-13	G	NV-6P-201-2G	VACCO	.25	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,	13X13	D	.5CV	S1S	11312G2			
75M05871-PGLV-17	J	5072X1004-2	APCO	.50	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,	13X13	BCD	3.8CV	S1S	1131213			
75M05871-PGLV-2	G	5072X1004-1	APCO	.75	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,	68X68	BC	3.8CV	S1S	1131213			
75M05871-PGLV-3	Z	MOD 6510(1)XXSGR11	ANNIN	3.00	MANUAL	20J	GATE ,INLINE,SHUTOFF ,CRY,	62X62	F	.0U	S1S	1121200			

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NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAT	SOL MAT	OTHER
75M05871-PGLV-3	Z	S-8550-EB (8-12ASA)	PACIFIC	3.00	MANUAL	200	GATE ,INLINE,SHUTOFF ,CRY,	62X62	F	.00	S	1	S	1	1200
75M05871-PGLV-4	S	MOD 6510(1.5)XXSGR14	ANNIN	1.50	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,	68X68	BC	13.0CV	S	1	S	1	1200
75M05871-PGLV-5	D	MOD 6510(2)XXSGR20-2.5	ANNIN	2.50	CHECK	600J	LIFT ,INLINE,HORZ,DIR OP,	68X68	BC	22.0CV	S	1	S	1	1200
75M05871-PGLV-6	S	MOD 6510(3)XXSGR	ANNIN	3.00	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,	68X68	BC	50.0CV	S	1	S	1	1200
75M05871-PGLV-8	S	MOD 6510(2)XXSGR	ANNIN	2.00	MANUAL	600J	GLOBE ,INLINE,FLOW REG, ,	68X68	BC	22.0CV	S	1	S	1	1200
75M05871-PGLV-9	G	5072X1004-2	APCO	.50	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,	13X13	BC	3.8CV	S	1	S	1	1213
75M05871-PGV-1	Z	S-8551-EB (6-12T)1.00	PACIFIC	1.00	MANUAL	200	GATE ,INLINE,SHUTOFF ,CRY,	10X10	F	41.0CV	S	1	S	1	1200
75M05871-PGV-2	Z	S-8550-EB (6-12ASA)	PACIFIC	2.00	MANUAL	200	GATE ,INLINE,SHUTOFF ,CRY,	62X62	F	.00	S	1	S	1	1200
75M05871-PGV-4	Z	S-8550-EB (10-12ASA)	PACIFIC	4.00	MANUAL	200	GATE ,INLINE,SHUTOFF ,CRY,	62X62	F	.00	S	1	S	1	1200
75M05871-PGV-6	Z	S-8550-EB (ASA)	PACIFIC	1.50	MANUAL	150	GATE ,INLINE,SHUTOFF ,CRY,	62X62	F	118.0CV	S	1	S	1	1200
75M05871-PGV-7	Z	S-8551-EB (6-12T)1.50	PACIFIC	1.50	MANUAL	150	GATE ,INLINE,SHUTOFF , ,	10X10	B	118.0CV	S	1	S	1	1200
75M05871-PPRV-1	D	T-1430 MOD 302B	GROVE	1.00	PRES REG	6000	REG,DOM, ,PRS, ,	68X68	B	.50 OD	S	1	S	1	1217
75M05871-PPRV-2	E	S202	FISHER	1.50	PRES REG	25	REG,SPR,RLV,SET, ,	10X10	B	1.00 OD	C	O	A	0	0200
75M05871-PPRV-3	M	M-12961-F MOD 94	GROVE	.38	PRES REG	600C	REG,DOM, ,PRS, , 750/L	13X13	BC	.00	S	1	S	1	2626
75M05871-PPRV-3	M	M-12961-M MOD 94	GROVE	.38	PRES REG	600J	REG,DOM, ,PRS, , 750/U	13X13	BC	.00	S	1	S	1	2626
75M05871-PPRV-3	M	M-12961-N MOD 94	GROVE	.38	PRES REG	6000	REG,DOM, ,PRS, , 750/U	13X13	BC	.00	S	1	S	1	2626
75M05871-PPRV-4	D	10989A068A MOD 202B	GROVE	1.00	PRES REG	3500	REG,DOM, ,PRS, ,	13X13	B	.00	S	1	S	1	2626
75M05871-PPRV-5	D	26-1007	TESCOM	.25	PRES REG	6000	REG,SPR,RLV,MAN, , 500/L	13X13	B	.00	B	1	S	1	1202
75M05871-PPRV-5	D	26-1007-30-051	TESCOM	.25	PRES REG	6000	REG,SPR,RLV,MAN, , 500/U	13X13	B	.00	B	1	S	1	1202
75M05871-PPRV-7	Z	202B	APCO	.75	PRES REG	600J	REG,DOM,RLV,PRS, ,6000/750	68X68	BD	.00	S	1	S	1	1300
75M05871-PPRV-8	M	M-12961-N MOD 94	GROVE	.50	PRES REG	6000	REG,DOM, ,PRS, ,6000/750	13X13	BCD	.00	S	1	S	1	2626

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NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	MATL SEAL	MATL STEM	MATL SPRING	MATL HDWR
75M05871-PRN-7		E49X-4-6	REPUBLC	.00						.00					
75M05871-PRV-10	P	54CL-660-6SS1	REPUBLC	.38	RELIEF	6000	DIR, ,6600CP, ADJ CP	13X13	BC	.25	OD	S1S1S11202			
75M05871-PRV-12	P	54CL649XB-4-8YT	REPUBLC	.50	RELIEF	150	DIR,ANGLE, , 165CP, ADJ CP	27X27	BC	.25	OD	S1S1141200			
75M05871-PRV-13		5159T1-6TT-165	J,P&C	.00						.00					
75M05871-PRV-14		44-8-2G-TG	MISSION	.00						.00					
75M05871-PRV-4	P	448-2G-TG-10	MISSION	1.00	RELIEF	6000	DIR, ,6600CP,	68X68	BC	.31	OD	S1S1S10200			
75M05871-PRV-6		54CL649XB-2-6YT	REPUBLC	.00						.00					
75M05871-PRV-8		54CL-649XB7-6YT	REPUBLC	.00						.00					
75M05871-PRV-9	P	54CL-660-6SS1	REPUBLC	.38	RELIEF	3500	DIR, ,3850CP, ADJ CP	13X13	BC	.25	OD	S1S1S11202			
75M05871-PSV-1		202873-113 MV74	MAROTTA	.25	SOLENOID	750	SGL,3W,2P,NC, ,		BC	.00					
75M05871-PSV-2	Y	204424 MOD MV123	MAROTTA	.38	SOLENOID	750	SGL, , , , ,	27X27	BC	.19	OD	A1S1131400			
75M05871-PSV-3	Y	202873-113 MV74 EQ2441	MAROTTA	.25	SOLENOID	750	SGL, , , , ,	27X27	BC	.12	OD	A1S1140000			
75M06057-3	A	K220T-8TT-1.5	J,P&C	.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,CRY	27X27	BCG	.00		S1S1S11200			
75M06178-1	A3	5159T-4TT-2000	J,P&C	.25	CHECK	2500	POPPET,INLINE,ANY ,DIR OP,	27X27	BCX	.00		S1S1S10200			
75M06201-1	D		RACINE	1.75	FLOW REG	4500	FLO-CI,DECEL,CAM ACT ,DIR,	68X68	X	.00		0000000600			
75M06518		204002-19 MOD CVM8	MAROTTA	.00						.00					
75M06582-12	D	154-12SS27P	REPUBLC	.75	MANUAL	10000	NEEDLE ,INLINE,FLOW REG, ,P	19X19	X	.00		S1S1S11202			
75M06582-8	D	154-8SSP	REPUBLC	.50	MANUAL	10000	NEEDLE ,INLINE,FLOW REG, ,P	19X19	X	.00		S1S1S11202			
75M06604-1	A	497-12Y-2	REPUBLC	.75	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X19	X	.00		S1S1S11200			
75M06605-1	A	446-16Y-30	REPUBLC	1.00	CHECK	5000	POPPET,INLINE,ANY ,DIR OP,	19X18	X	.00		S1S1S11200			
75M06660-1	F	R1V12-545-S6	DENISON	.75	RELIEF	5000	DIR,ANGLE, ,3450CP,2500/5000	19X19	X	.00		S1S1S10200			

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NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE BODY MATL	VALVE TRIM MATL	SEAT MATL	SEAL MATL	OTHER MATL
75M07000-1		230524-2 MOD RV41AK	MAROTTA	.25	PRES REG	6000	REG,DOM,RLV,MAN, ,		ABC	.00					
75M07000-2		230524-3 MOD RV41AK	MAROTTA	.25	PRES REG	6000	REG,DOM,RLV,MAN, ,		ABC	.00					
75M07209-2		MOD 44-3-TG-2G 1-3325	FL-MEC	1.50	RELIEF	90	DIR,ANGLE, , 60CP,		ABC	.00					
75M07278		10432	FUTR-CR	.38	DIR CONT	300	SELECT,3W,3P,MAN ACT , ,		BCE	.00					
75M07278-1		90625-1	FUTR-CR	.25	DIR CONT	10000	CALIBRATN		ABC	.00					
75M07278-3		90625-3 (.25)	FUTR-CR	.25	DIR CONT	10000	CALIBRATN		ABC	.00					
75M07278-3		90625-3 (.38)	FUTR-CR	.25	DIR CONT	10000	CALIBRATN		ABC	.00					
75M07278-3		90625-3 (.50)	FUTR-CR	.25	DIR CONT	10000	CALIBRATN		ABC	.00					
75M07278-3		220T-8BB-5	J,P&C	.25	DIR CONT	10000	CALIBRATN		ABC	.00					
75M08325-1	F	279T1-4NN	J,P&C	.25	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	B	.00					S1S1S10200
75M08325-3	F	279T1-8NN	J,P&C	.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	B	.00					S1S1S10200
75M08325-3	F	299T1-8ZZ	J,P&C	.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	B	.00					S1S1S10200
75M08325-5	F	279T1-12NN	J,P&C	.75	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X18	B	.00					S1S1S10200
75M08326-1	C	279T1-4NV-1	J,P&C	.25	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X19	B	.00					S1S1S10200
75M08410-1	E	VQC-2751	VICTOR	.50	PRES REG	7000	REG,SPR,RLV,MAN, ,3000/200	18X18	B	.21 OD					S1S1140300
75M08411	C	410-8Y28-3	REPUBLC	.50	FLOW REG	125	FLO-REST,PNEU ,1W,ADJ	19X19	B	.12 OD					S1S1S10200
75M08413-1	J	SSKA250-4C-768	ROBBINS	.25	MANUAL	6000	GLOBE ,ANGLE ,METERING, ,P	19X19	BX	.2CV					S1S1130200
75M08413-3	J	SSKA500A-8C-768	ROBBINS	.50	MANUAL	6000	GLOBE ,ANGLE ,METERING, ,P	19X19	BX	1.0CV					S1S1130200
75M08414-1	G	SSKG250-4C-768	ROBBINS	.25	MANUAL	6000	GLOBE ,INLINE,METERING, ,P	19X19	BX	.1CV					S1S1130200
75M08414-2	G	SSKG375A-6C-768	ROBBINS	.38	MANUAL	6000	GLOBE ,INLINE,METERING, ,P	19X19	BX	.9CV					S1S1130200
75M08414-3		SSKG500A-8C-768	ROBBINS	.00						.00					

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NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE BODY	MATL TRIM	SEAL	ACT	OTH
75M08415-1	J	2-8038-1	ANDGRWD	.38	RELIEF	4500	DIR,ANGLE, , 950CP, 550/1099	19X19	BX	.13 OD	S	1	S	1	1312G2
75M08415-10H	J	2-8038-10	ANDGRWD	.38	RELIEF	4500	DIR,ANGLE, ,3300CP,2000/3399	19X19	BX	.13 OD	S	1	S	1	111202
75M08415-2	J	2-8038-2	ANDGRWD	.38	RELIEF	4500	DIR,ANGLE, ,1900CP,1100/1999	19X19	BX	.13 OD	S	1	S	1	131202
75M08415-3	J	2-8038-3	ANDGRWD	.38	RELIEF	4500	DIR,ANGLE, ,3300CP,2000/3399	19X19	BX	.13 OD	S	1	S	1	131202
75M08415-5H	J	2-8038-5	ANDGRWD	.38	RELIEF	4500	DIR,ANGLE, ,3300CP,2000/3399	19X19	BX	.13 OD	S	1	S	1	131202
75M08415-6	J	2-8038-6	ANDGRWD	.38	RELIEF	4500	DIR,ANGLE, , 950CP, 550/1099	19X19	BX	.13 OD	S	1	S	1	111202
75M08415-8	J	2-8038-8	ANDGRWD	.38	RELIEF	4500	DIR,ANGLE, ,3300CP,2000/3399	19X19	BX	.13 OD	S	1	S	1	111202
75M08617-3	D	0559T1-80-4	J,P&C	.25	RELIEF	200	DIR,INLIN, , 4CP,	18X73	B	.00	S	1	S	1	S10200
75M08617-3	D	559T1-80-4	J,P&C	.25	RELIEF	200	DIR,INLIN, , 4CP,	18X73	B	.00	S	1	S	1	S10200
75M08819-1	F	DZ2818	RIVETT	.75	PRES REG	3000	BACK-PRS,DIR OP, , 0/160	19X19	X	.00	F	1	0	0	0200
75M08820-1	H	15C160	FLODYNE	1.50	FLOW REG	3500	SHUTOF,GLOBE,HYDR ACT,PIL,	68X68	X	110.0CV	A	1	S	1	000200
75M08821	G	15C150	FLODYNE	1.50	SOLENOID	3500	DBL,2W,2P,MP,PNEU PIL,	68X68	X	110.0CV	A	1	S	1	000200
75M08822	E	K402016	KEMP	1.00	SOLENOID	3000	DBL,2W,2P,NC,PNEU PIL,	68X68	B	.00	A	1	00	12	0211
75M38822-3	E	K402016-3	KEMP	1.00	SOLENOID	3000	DBL,2W,2P,NC,PNEU PIL,	68X68	B	.00	A	1	00	12	0211
75M08823-3	M	806097-1 MOD MV51CH-2A	MAROTTA	.50	SOLENOID	3000	SGL,2W,2P,NC,DIR ACT ,S/P	19X19	BX	.20 CD	S	1	S	1	140200
75M08823-4	M	806097-5 MOD MV51CH-2A	MAROTTA	.50	SOLENOID	3000	SGL,2W,2P,NC,DIR ACT ,S/P	19X19	BX	.00	S	1	S	1	140200
75M08824-1		228154-02 MOD MV1CCUC	MAROTTA	.CO						.00					
75M08824-2	L	228154-05 MOD MV1CCUG	MAROTTA	.25	SOLENOID	3000	SGL,2W,2P,NC,DIR ACT ,	19X19	BX	.11 OD	A	1	S	1	A10200
75M08824-4	L	228154-02MV1CCUGE03071	MAROTTA	.25	SOLENOID	3000	SGL,2W,2P,NC,DIR ACT ,	19X19	BX	.11 OD	A	1	S	1	A10200
75M08824-6	L	228154-06MV1CCUGE03071	MAROTTA	.25	SOLENOID	3000	SGL,2W,2P,NC,DIR ACT ,	19X19	BX	.11 OD	A	1	S	1	A10200
75M08825-1	J	225834-02 MOD MV74VE	MAROTTA	.25	SOLENOID	3000	SGL,3W,2P,NO,PNEU PIL,	19X19	B	.11 OD	A	1	S	11	4J200

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NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL ACTR	VALVE MATL O RING
75M08825-2	J	225884-05 MV74VEE03045	MAROTTA	.25	SOLENOID	3000	SGL,3W,2P,NO,PNEU PIL,	19X19	B	.11 OD	A	1	S	1	40200
75M08825-3	J	225884-02 MV74VEE03044	MAROTTA	.25	SOLENOID	3000	SGL,3W,2P,NO,PNEU PIL,	19X19	B	.11 OD	A	1	S	1	40200
75M08826-3	L	227154-5 MOD PV43C	MAROTTA	1.00	SOLENOID	3000	DBL,3W,2P,NC,PNEU PIL,	19X19	BX	.50 OD	S	1	S	1	40200
75M08826-4	L	227154-4 PV43C E0 3029	MAROTTA	1.00	SOLENOID	3000	DBL,3W,2P,NC,PNEU PIL,	19X19	BX	.50 OD	S	1	S	1	40200
75M08827-4	G	227404-3	MAROTTA	1.00	SOLENOID	3000	DBL,4W,2P,SP,PNEU PIL,	19X19	BX	.50 OD	S	1	S	1	40200
75M08828	E	230884-1 MOD RV53DF	MAROTTA	1.50	PRES REG	3000	REG,DOM,RLV,PRS, ,	19X19	BX	.00	A	1	S	1	00200
75M08829-1	N	227464-J11 RV31HE02461	MAROTTA	.38	PRES REG	6000	REG,SPR,RLV,MAN, ,3000/0	18X18	B	.00	S	1	S	1	40200
75M08829-2	N	227464-J11 RV31HE02461	MAROTTA	.38	PRES REG	6000	REG,SPR,RLV,MAN, ,3000/0	18X18	B	.00	S	1	S	1	40200
75M08830-1	M	219004-B155	MAROTTA	.25	PRES REG	3000	REG,SPR,RLV,MAN, , 150/0	18X18	BX	.00	A	1	S	1	40200
75M08830-1	M	219004-B155 RV31E03195	MAROTTA	.25	PRES REG	3000	REG,SPR,RLV,MAN, , 150/0	18X18	BX	.00	A	1	S	1	40200
75M08830-2	M	219004-J151 MOD RV31	MAROTTA	.25	PRES REG	3000	REG,SPR,RLV,MAN, ,3000/0	18X18	BX	.00	A	1	S	1	40200
75M08831-1	H	230904-12 MOD RV78AN	MAROTTA	.50	PRES REG	4500	REG,SPR,RLV,SLT, , 190/5L	19X19	B	.00	A	1	S	1	40200
75M08832	G	225884-343 MOD PRV47	MAROTTA	1.00	RELIEF	2000	PIL,INLIN, , 15CP,	19X19	BX	.00	A	100	A	10	200
75M08838	C	6628F 316 (1.50)	EDWARDS	1.50	MANUAL	4500	GLOBE ,INLINE,METERING, ,N	68X68	X	.00	S	1	S	1R	1900
75M08839	G	AV14J1163	GENCNTR	.38	SOLENOID	3200	DBL,4W,3P,NC,DIR ACT ,	19X19	X	.00	A	1	S	2000	200
75M08840	K	26370-3	STERER	.50	SOLENOID	3000	DBL,4W,2P,NO,DIR ACT ,S/P	19X19	X	.00	A	3	S	1S10	200
75M08841-1	R	26370-2	STERER	.50	SOLENOID	3000	DBL,4W,2P,LP,DIR ACT ,S/P	19X19	X	.00	A	3	S	1S10	200
75M08841-3	R	37890	STERER	.50	SOLENOID	3000	DBL,4W,2P,LP,DIR ACT ,S/P	19X19	X	.00	A	3	S	1S10	200
75M08842	E	11420-3	STERER	.25	SOLENOID	1050	SGL,4W,2P,NO,DIR ACT ,	19X19	B	.00	A	3	S	2000	000
75M08876	F	T-180-6C-768	ROBBINS	.38	MANUAL	6000	GLOBE ,3-PORT,METERING, ,P	19X19	BX	.3CV	S	1	S	1130	200
75M08877	F	A427A-12C-768	ROBBINS	.75	MANUAL	6000	GLOBE ,ANGLE ,SHUTOFF , ,P	19X19	BX	9.0CV	S	1	S	1120	200

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NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY MATL SEAT MATL SEAL MATL OTHER MATL
75M09007-1	G	458-32SS	REPUBLC	1.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	68X68	X	.00	S1S1S11202
75M09220-PAV-1	-	44-1525	AMINCO	.25	MANUAL	6000	NEEDLE ,ANGLE ,SHUTOFF , ,	46X46	D	.09 OD	S1S2S11200
75M09220-PAV-2	-	5073X1007	APCO	.38	MANUAL	6000	GLOBE ,ANGLE ,FLOW REG, ,	13X13	BC	1.6CV	S1S1131200
75M09220-PCV-1	-		SECURTY	.25	CHECK	6000	POPPET,INLINE,ANY ,DIR OP,	13X46	D	.09 OD	S1S1001200
75M09220-PCV-2	-		SECURTY	.75	CHECK	6000	POPPET,INLINE,ANY ,DIR OP,	68X68	D	7.0CV	S1S1001200
75M09220-PCV-5	-	MOD 6590(2)XXSGR	ANNIN	2.00	CHECK	6000	LIFT ,INLINE,HORZ,DIR OP,	68X68	D	22.0CV	S1S1131200
75M09220-PCV-6	-		SECURTY	3.00	CHECK	200	SWING ,INLINE,HORZ,DIR OP,CRY	62X62	DH	290.0CV	S1S1S11200
75M09220-PGLV-1		5071X1006-4	APCO	.00						.00	
75M09220-PGLV-2	-	5071X1006-4	APCO	.38	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,P	13X13	D	1.2CV	S1S1131202
75M09220-PGLV-5	-	5072X1004-3	APCO	.75	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,P	68X68	D	3.8CV	S1S1131202
75M09220-PGLV-6	-	MOD 6510(1)XXSGR12-1.2	ANNIN	1.25	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,P	68X68	D	5.6CV	S1S1001200
75M09220-PPRV-1	-	M-12961-F MOD 94	GROVE	.38	PRES REG	6000	REG,DOM,N-R,PRS, , 750/0	13X13	D	.19 OD	S1S1132614
75M09220-PRV-1	-		FL-MECH	1.00	RELIEF	6600	DIR,INLIN, ,6600CP,	68X68	D	.31 OD	S1S1S10200
75M09220-PRV-2	-	649X9-7-6-T	REPUBLC	.38	RELIEF	850	DIR, , 825CP,	27X27	BC	.25 OD	S1S1001412
75M09285-1	G	806098 MOD MV583H-2A	MAROTTA	.50	SOLENOID	3000	SGL,3W,2P,NC,DIR ACT ,	19X19	BX	.19 OD	S1S1140212
75M09285-2	G	806098-1 MOD MV583H-2A	MAROTTA	.50	SOLENOID	3000	SGL,3W,2P,NC,DIR ACT ,	19X19	BX	.19 OD	S1S1140212
75M09286-3	H	231074-22 MOD PRV4M	MAROTTA	.25	RELIEF	3000	DIR,INLIN, ,1500CP,1300/2350	19X19	B	.02 OD	A1A1A10251
75M09286-5	H	231074-23 MOD PRV4M	MAROTTA	.25	RELIEF	3000	DIR,INLIN, ,2350CP,1300/4300	19X19	B	.02 OD	A1A1A10251
75M09569-1	C	224-12	REPUBLC	.75	MANUAL	2000	GLOBE ,OFFSET,SHUTOFF , ,P	13X13	X	.00	B0S0001200
75M09571-1	C	1006-B1	ROESHAW	.50	FLOW REG	250	FLO-CT,GLOBE,BELLOWS ,TMP,	10X10	N	.00	B1S1S11200
75M09618-PAV-1	-	44-1525	AMINCO	.25	MANUAL	6000	NEEDLE ,ANGLE , , ,	46X46	D	.09 OD	S1S1001200

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY TRIM SEAT SPRING OTHER
75M09618-PAV-2	-	5073X1007	APCO	.38	MANUAL	6000	GLOBE ,ANGLE ,FLOW REG, ,	13X13	BC	1.6CV	S1S1131200
75M09618-PBV-1	B	3/4-B-98728-B	CRANE	.75	MANUAL	100	BALL ,INLINE,SHUTOFF , ,	13X13	BC	.00	S1S1120600
75M09618-PCV-1	-	CD-2005	SECURTY	.25	CHECK	6000	POPPET,INLINE,ANY ,DIR OP,	13X46	D	.09 OD	S1S1S11200
75M09618-PCV-2	-		SECURTY	.75	CHECK	6000	POPPET,INLINE,ANY ,DIR OP,	68X68	D	7.0CV	S1S1S11200
75M09618-PCV-3	-	MOD 6590(2)XXSGR	ANNIN	2.00	CHECK	6000	LIFT ,INLINE,HORZ,DIR OP,	68X68	D	22.0CV	S1S1131200
75M09618-PCV-4	A		SECURTY	3.00	CHECK	200	SWING ,INLINE,HORZ,DIR OP,CRY	62X62	DH	290.0CV	S1S1121200
75M09618-PCV-5	-	CD-2005	SECURTY	.50	CHECK	6000	,INLINE,ANY ,DIR OP,	13X13	BC	.38 OD	S1S1001200
75M09618-PCV-6	-	1-3528	MISSION	.50	CHECK	25	POPPET,INLINE,ANY ,DIR OP,	27X27	B	.25 OD	S1S1S11200
75M09618-PCVA-1	E	90630-HP-3-LOX	FUTR-CR	.25	DIR CONT	6000	CALIBRATN	46X46	BCD	.00	S1000012000
75M09618-PGLV-1	-	5071X106-4	APCO	.25	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,	13X13	D	.5CV	S1S1131202
75M09618-PGLV-2	-	5071X1004-3	APCO	.38	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,	13X13	D	1.2CV	S1S1131202
75M09618-PGLV-3	-	5072X1004-3	APCO	.75	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,	68X68	D	3.8CV	S1S1131202
75M09618-PPRV-1	-	M-12961-F MOD 94	GROVE	.38	PRES REG	6000	REG,DOM,N-R,PRS, , 750/U	13X13	BC	.00	S1S1142613
75M09618-PPRV-3	-	10927AA38 MOD 15L	GROVE	.38	PRES REG	750	REG,SPR,RLV,MAN, , 25/U	13X13	BC	.00	S1S1S11200
75M09618-PPRV-4	-	M-12961-D MOD 94	GROVE	.50	PRES REG	6000	REG,DOM,RLV,PRS, , 750/U	13X13	BC	.00	S1S1S11300
75M09618-PRV-1	-		FL-MECH	1.00	RELIEF	6600	DIR,INLIN, ,6600CP,	68X68	D	.31 OD	S1S1S10200
75M09618-PRV-2	-	549X-7-6	REPUBLC	.38	RELIEF	825	DIR, , 825CP,	27X27	BC	.25 OD	S1S1S11412
75M09618-PRV-3	B	660-6	REPUBLC	.38	RELIEF	6600	DIR, ,6600CP,	13X13	BC	.25 OD	S1S1S11202
75M09618-PRV-4	B	660-6	REPUBLC	.38	RELIEF	3850	DIR, ,3350CP,	13X13	BC	.25 OD	S1S1S11202
75M09618-PRV-5	-	649X-2-6	REPUBLC	.38	RELIEF	40	DIR, , 33CP,	27X27	BC	.25 OD	S1S1S11412
75M09618-PRV-6	C	5159T1-6TT-65	J,P&C	.38	RELIEF	50	DIR, , 33CP,	27X27	BC	.05 OA	S1S1S10200

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE BODY **	MATL TRIM **	SEAL **	OPER ACT **	HDWR **
75M09618-PSV-1	F	202873-113 MV74	MAROTTA	.25	SOLENOID	750	SGL,3W,2P,MP, ,	27X27	BC	.12 OD	A	1S	1	4	0000
75M09618-PSV-2	E	204424 MODMV123 E02493	MAROTTA	.38	SOLENOID	750	SGL,3W,2P,MP,DIR ACT ,S/P	27X27	BC	.19 OD	A	1S	1	4	0000
75M09825	D	83705	CRANE	4.00	FLOW REG	350	SHUTOF,BALL ,PNEU ACT,PIL,	62X62	N	.00		S	1S	1	2060
75M09938		219293-03 MOD LV74M	MAROTTA	.00						.00					
75M09938-2	J	304A008 MOD LV74M	MAROTTA	.25	DIR CONT	3000	SELECT, 2P,MAN ACT ,DIR,	13X13	BX	.12 OD	A	1S	1	0002	14
75M09938-3	J	304-A005 MOD LV74M	MAROTTA	.25	DIR CONT	3000	SELECT, 2P,MAN ACT ,DIR,	13X13	BX	.12 OD	A	1S	1	0002	14
75M09938-4	J	304-A006 MOD LV74M	MAROTTA	.25	DIR CONT	3000	SELECT, 2P,MAN ACT ,DIR,	13X13	BX	.12 OD	A	1S	1	0002	14
75M09938-5	J	304-A004 MOD LV74M	MAROTTA	.25	DIR CONT	3000	SELECT, 2P,MAN ACT ,DIR,	13X13	BX	.12 OD	A	1S	1	0002	14
75M09938-8	J	304A011 MOD LV74M	MAROTTA	.25	DIR CONT	3000	SELECT, 2P,MAN ACT ,DIR,	13X13	BX	.12 OD	A	1S	1	0002	14
75M09938-9	J	304-A012 MOD LV74M	MAROTTA	.25	DIR CONT	3000	SELECT, 2P,MAN ACT ,DIR,	13X13	BX	.12 OD	A	1S	1	0002	14
75M10090-1	H	230864 MOD RV52CC	MAROTTA	.75	PRES REG	3000	REG,SPR,RLV,SOL, ,INLT-REDU	19X19	N	.00		A	1S	1	0002
75M10212	A	30-2215-2	AUTOCLV	.25	DIR CONT	6000	SELECT,4W,3P,MAN ACT ,DIR,	19X19	ABC	.00		S	1S	1S	0200
75M10272		RC-2550	PARKER	.50	PRES REC	250	REG,DOM,RLV,PRS, ,	10X10	A	.00					
75M11428	A	N80423-8AY2LCD	REPUBLC	.50	DIR CONT	2000	SELECT,4W,2P,MAN ACT ,DIR,	19X19	B	.00		S	1S	2	0200
75M11558	D	G427A-16C-768	ROBBINS	1.00	MANUAL	6000	GLOBE ,INLINE,METERING, ,P	19X19	BX	.84 OD		S	1S	1	2020
75M11855	-	1VF4-A-316 MODIFIED	WHITEY	.25	MANUAL	3000	NEEDLE ,ANGLE ,FLOW REG, ,P	19X19	X	.00		S	1S	1S	0200
75M11856	B2	10930LK2B MOD 15LHX	GROVE	.25	PRES REG	6000	REG,SPR,RLV,MAN, ,S1LO/L	19X19	AB	.00		S	1S	1S	1400
75M11859	A	893155-06	KIDDE	.25	PRES REG	3000	REG,SPR,RLV,SET, ,3000/750	19X19	AB	.00		A	0S	0	0300
75M11860	-	15C153	FLODYNE	1.50	FLOW REG	3000	FLO-CT,BALL ,CAM ACT ,DIR,	19X19	X	1.31 OD	A	1S	1	2020	0
75M11861	-	15C19	FLODYNE	1.50	FLOW REG	3000	SHUTOF,BALL ,PNEU ACT,PIL,	19X19	X	1.31 OD	A	1S	1	2020	0
75M11862	-	15C16	FLODYNE	1.50	SOLENOID	3000	SGL,2W,2P,NC,PNEU PIL,	19X19	X	1.31 OD	A	1S	1A	1020	0

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAL MAT	SEAL TEMP	OPTN
75M11865	-	12C15	FLODYNE	1.25	SOLENOID	3000	SGL,2W,2P,NC,PNEU PIL,	19X19	X	1.08 OD	A	1	S	1	A
75M11869	A9	231184-1 MOD MV100AS	MAROTTA	.25	SOLENOID	3000	SGL,2W,2P,NO,DIR ACT ,	18X18	AB	.00	A	1	S	1	0
75M11871	-	5RF4-316 MODIFIED	WHITEY	.25	MANUAL	3000	NEEDLE ,INLINE,FLOW REG, ,P	19X19	X	.00	S	1	S	1	0
75M11873	-	P22-416	J,P&C	.25	MANUAL	3000	PLUG ,INLINE,SHUTOFF , ,N	42X30	X	.00	S	1	S	1	0
75M11874	-	949T-488(P)	J,P&C	.25	MANUAL	3000	NEEDLE ,INLINE,SHUTOFF , ,P	19X19	ABX	.17 OD	S	1	S	1	0
75M11875	A2	28170-9	HYDRESR	.25	PRES REG	3000	REG,SPR, ,SLT, , 125/L	19X19	X	.00	A	0	S	0	0
75M11876	-	22R-316 MODIFIED	WHITEY	.25	MANUAL	3000	NEEDLE ,INLINE,METERING, ,P	19X19	AB	.02 OD	S	1	S	0	0
75M11879	-	299T-24TT	J,P&C	1.50	CHECK	1500	POPPET,INLINE,ANY ,DIR OP,	18X18	X	.00	S	1	S	1	0
75M11922	B3	869T-SVN	J,P&C	.38	CHECK	200	POPPET,INLINE,ANY ,DIR OP,	19X18	AY	.00	S	1	S	0	0
75M11936	A5	806177 MOD MV54CPH-1A	MAROTTA	.25	SOLENOID	3000	DBL,3W,2P,NO,DIR ACT ,S/P	19X19	AB	.00	A	1	S	0	0
75M11999	-	F-800-SS6-10	MANATRL	.50	FLOW REG	3000	FLO-REST,HYDR ,1W,ADJ	19X19	X	.00	S	1	S	0	0
75M12001	A	1218-4	PNUDRAY	.50	RELIEF	3000	DIR,INLIN, ,2240CP,1400/2300	19X19	X	.00	A	0	0	0	0
75M12007	-	7C46	FLODYNE	.75	DIR CONT	3000	SELECT,4W,2P,CAM ACT ,DIR,	19X19	X	.00	A	1	S	0	0
75M13207-PGLV-14		5071BKX06T	APCO	.38	MANUAL		, , , ,			.00					
75M13207-PGLV-14		5071X1006-6	APCO	.38	MANUAL		, , , ,			.00					
75M13208-PAV	-		VACCO	.56	MANUAL	6000	GLOBE ,ANGLE ,SHUTOFF , ,	46X46	BC	.31 OD	S	1	S	1	2
75M13208-PAV-1	-		VACCO	.25	MANUAL	6000	GLOBE ,ANGLE ,SHUTOFF , ,	46X46	BC	.09 OD	S	1	S	1	2
75M13208-PCV-2	-		APCO	.56	CHECK	6000	POPPET,INLINE,ANY ,DIR OP,	46X46	BC	.31 OD	S	1	S	1	2
75M13208-PGLV-5	-	MOD 6510(2)XXSGR2C-2.5	ANNIN	2.50	MANUAL	6000	GLOBE ,INLINE,FLOW REG, ,N	68X68	BC	22.0CV	S	1	S	1	2
75M13208-PRV-4	-		FL-MECH	1.00	RELIEF	9000	DIR,ANGLE, ,6600CP,	68X68	BC	.31 EO	S	1	S	2	0
75M13285-1	A6	229634 MV130V EO 2332	MAROTTA	.38	SOLENOID	3000	SGL,2W,2P,NC,DIR ACT ,	19X19	X	.00	A	3	S	1	0

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE BODY MATL	MATL TRIM	SEAT MATL	OTHER MATL
75M13285-2	A6	229634 MV13CV E0 2532	MAROTTA	.38	SOLENOID	3000	SGL,2W,2P,NC,DIR ACT ,	19X19	B	.00	A	3	S	1601700
75M13597-CSV-1	B	231644 MOD MV123KA	MAROTTA	.38	SOLENOID	750	SGL,2W,2P, ,DIR ACT ,	19X19	AB	.19 E0	A	1	S	1130200
75M14522-LRV-3	C		MISSION	1.50	RELIEF	300	DIR, CRY, 300CP,	62X62	FG	.00	S	1	S	1000000
75M14522-LRV-4	C		MISSION	1.50	RELIEF	300	DIR, CRY, 400CP,	62X62	FG	.00	S	1	S	1000000
75M14524-HCV-9	F	K220T-8PP-2	J,P&C	1.00	CHECK	1500	POPPET,INLINE,ANY ,DIR OP,CRY	10X10	H	.00	S	1	S	11200
75M14524-HRV-8	F	1-8017	SAGE	4.00	RELIEF	150	DIR, CRY, 90CP,	62X62	H	4.34 0A	S	1	S	1131200
75M14551-1	-	229654-11 MOD MV159KC	MAROTTA	.75	SOLENOID	3000	SGL,2W,2P,NO,PNEU PIL,	19X19	ABC	.60 E0	S	1	S	1140200
75M14551-2	-	229654-12 MOD MV159KC	MAROTTA	.75	SOLENOID	3000	SGL,2W,2P,NC,PNEU PIL,	19X19	ABC	.60 E0	S	1	S	1140200
75M15044-PAV-1	-	5073X1007	APCO	.38	MANUAL	6000	GLOBE ,ANGLE ,FLOW REG, ,	13X13	BC	1.6CV	S	1	S	1131200
75M15044-PBV-1	-	3/4-B-98728-B	CRANE	.75	MANUAL	100	BALL ,INLINE, , ,P	19X19	BC	.00	S	1	S	1120600
75M15044-PCV-1	A		SECURTY	.50	CHECK	6000	,INLINE,ANY ,DIR OP,	13X13	BC	.38 E0	S	1	S	1130200
75M15044-PCV-2	A		SECURTY	.50	CHECK	50	POPPET,INLINE,ANY ,DIR OP,	27X27	B	.25 E0	S	1	S	1130200
75M15044-PPRV-1	A	M-12961-M MOD 94	GROVE	.38	PRES REG	6000	RLG,DOM, ,PRS, , 750/0	13X13	B	.00	S	1	S	1132614
75M15044-PPRV-2	A	M-12961-P MOD 94	GROVE	.25	PRES REG	6000	REG,DOM, ,PRS, , 750/0	13X13	BC	.00	S	1	S	1132614
75M15044-PPRV-3	A	10927AA3B MOD 15L	GROVE	.38	PRES REG	750	REG,SPR,RLV,MAN, , 250/0	13X13	B	.00	S	1	S	11214
75M15044-PPRV-4	A	M-12961-N MOD 94	GROVE	.50	PRES REG	6000	REG,DOM,RLV,MAN, , 750/0	13X13	BC	.00	S	1	S	1132614
75M15044-PRN-4	-	649X8-2-6-T	REPUBLC	.38	RELIEF	40	DIR, , 33CP,	27X27	BC	.25 0D	S	1	S	1141200
75M15044-PRV-1	A	649X8-7-6-T	REPUBLC	.38	RELIEF	1125	DIR, , 825CP,	27X27	BC	.25 0D	S	1	S	1131412
75M15044-PRV-3	A	660-6	REPUBLC	.38	RELIEF	5250	DIR, ,3850CP,	27X27	BC	.25 0D	S	1	S	1130212
75M15044-PRV-5	A	5159T1-ETT-65	J,F&C	.38	RELIEF	75	DIR, , 65CP,	27X27	BC	.04 0A	S	1	S	10202S3
75M15044-PSV-1	B	202973-113 MV74 E02625	MAROTTA	.25	SOLENOID	750	SGL,2W,2P, ,DIR ACT ,	27X27	BC	.12 E0	A	1	S	1140052

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY MAT	SEAT MAT	STEM MAT	SPG MAT	OTH MAT
75M15044-PSV-2	-	204424 MOD MV123	MAROTTA	.38	SOLENOID	750	SGL,2W,2P, ,DIR ACT ,	27X27	BC	.19 EO	A1S1140US1				
75M15080-1	E	X262-501	BECKETT	.50	DIR CONT	125	SELECT,5W,3P,MAN ACT ,DIR,	19X19	b	.00	S1AUS202B4				
75M15154-HGLV-1	-		ROBBINS	.25	MANUAL	150	GLOBE ,INLINE, ,VAC,	13X13	HCD	.00	S1S1131200				
75M15154-HGLV-16	-		ROBBINS	.25	MANUAL	150	GLOBE ,ANGLE , ,CRY,	13X13	HCD	.00	S1S1131200				
75M15154-HGLV-18	-		POWELL	.50	MANUAL	150	GLOBE ,INLINE, ,E-B,	10X10	HCD	.00	S1S1130000				
75M15154-HGLV-19	-		ANNIN	4.00	FLOW REG	150	SHUTOF,GLOBE,PNEU ACT,FIL,J/C	89X89	HCD	270.0CV	S1S1130000				
75M15154-HGLV-31	-		ANNIN	.25	MANUAL	150	GLOBE ,INLINE, ,E-B,	10X10	HCD	.00	S1S1130000				
75M15154-HRV-14	-		MMM	1.00	RELIEF	150	DIR,ANGLE,CRY, 90CP,	62X62	H	.11 GA	S1S1S10000				
75M15154-HRV-6	-		LONERGN	1.50	RELIEF	200	DIR,ANGLE,CRY, 90CP,	62X62	H	.20 GA	S1S1S10000				
75M15156-LGV-1F	-		PACIFIC	3.00	MANUAL	150	GATE ,INLINE, ,CRY,N	62X62	HCD	400.0CV	S1S1S11200				
75M15211-PRV-3	-	M-12961-J MOD 94	GROVE	.38	PRES REG					.00					
75M15214-PBFV-1		100 (1.50)	KEYSTON	1.50	MANUAL	150	BUTRFLY,INLINE, , ,N	62X62	NG	.00	A0B7030351				
75M15214-PBFV-2		100 (2.00)	KEYSTON	2.00	MANUAL	150	BUTRFLY,INLINE, , ,N	62X62	NG	.00	A0B7030351				
75M15214-PBFV-3		100 (4.00)	KEYSTON	4.00	MANUAL	150	BUTRFLY,INLINE, , ,N	62X62	NG	.00	A0B7030351				
75M15214-PCV-5		249T-4PP	J,P&C	.50	CHECK	150	POPPET,INLINE,ANY ,DIR OP,	10X10	B	.00	S0S0S00200				
75M15214-PPR-2		40-30	MOORE	.25	PRES REG	150	REG,SPR,RLV,MAN, , 30/U	10X10	B	.00	B0B0B00350				
75M15214-PRV-2		524T1-2MP-20	J,P&C	.25	RELIEF	200	DIR,INLIN, , 20CP, ADJ CP	09X10	B	.00	S1S1050500				
75M15214-PSN-3	C	SA-511	VALVAIR	.25	SOLENOID	200	SGL,2W,2P,NO,DIR ACT ,	10X10	B	.1CV	Z1S0S01700				
75M15214-PSV-1		SA-509	VALVAIR	.25	SOLENOID	50	SGL,2W,3P,NC,DIR ACT ,	10X10	B	.2CV	Z1S0S01700				
75M15214-PSV-2		SA-510	VALVAIR	.25	SOLENOID	250	SGL,2W,2P,NC,DIR ACT ,	10X10	B	.1CV	Z1S0S01700				
75M15214-PSV-4	N	WP-HT-X-821C27	ASCO	1.00	SOLENOID	225	SGL,2W,2P,NC,DIR ACT ,	10X10	N	12.0CV	B1S2B10200				

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE BODY	MATL TRIM	SEAT	SOFT MAT	OTHER MATL
75M15296-1	-	579-04	CALMEC	.25	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,CRY	27X27	ABC	.02	OA				S1S3131300
75M15296-3	-	579-08	CALMEC	.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,CRY	27X27	ABC	.12	OA				S1S3131300
75M15329-FAV-1	A	A375B-8T	ROBBINS	.50	MANUAL	200	NEEDLE ,ANGLE , , ,	10X10	YLM	.00					S1S1S10000
75M15329-FBV-2	A	D-150F-44-TT (4.00)	JAMSBRY	4.00	MANUAL	200	BALL ,INLINE, , ,	61X61	YLM	.00					A0A0121200
75M15329-FBV-3	A	AT-36-TT (1.00)	JAMSBRY	1.00	MANUAL	200	BALL ,INLINE, , ,	13X13	YLM	.00					S1S1121200
75M15329-FBV-5	A	A231P4	HYDRMAT	4.00	FLOW REG	750	SHUTOF,BALL ,PNEU ACT,DIR,	62X62	YLM	.00					A0A0121302
75M15329-FCLV-1	A	MOD 1560 (2.00)	ANNIN	2.00	FLOW REG	200	FLO-CT,GLOBE,PNEU ACT,POS,	62X62	YLM	.00					S1S1121200
75M15329-FCV-2	A		POWELL	4.00	CHECK	200	SWING ,INLINE,HORZ,DIR OP,	62X62	YLM	.00					S1B0000000
75M15329-FCV-3	A	603	V&P	3.00	CHECK	35	POPPET,INLINE,ANY ,DIR OP,	61X61	YLM	.00					S1B1120000
75M15329-FCV-4	A	488-16SS1-5	REPUBLC	1.00	CHECK	200	POPPET,INLINE,ANY ,DIR OP,	27X27	YLM	7.0CV					S1S1000206
75M15329-FCV-5	A	23-111-2 MODIFIED	COOPER	3.00	CHECK	200	SWING ,INLINE,HORZ,DIR OP,	62X62	YLM	.00					S1B1000000
75M15329-FGLV-1	A	14 1/2P	CRANE	.50	MANUAL	200	GLOBE ,INLINE, , ,	10X10	YLM	.00					B1B1S20000
75M15329-FGV-1	A	1401G MODIFIED (4.00)	POWELL	4.00	MANUAL	200	GATE ,INLINE, , ,	61X61	YLM	.00					B1B1121900
75M15329-FGV-2	A	1401G MODIFIED (3.00)	POWELL	3.00	MANUAL	200	GATE ,INLINE, , ,	61X61	YLM	.00					B1B1121900
75M15329-FGV-6	A		CRANE	1.00	MANUAL	200	GATE ,INLINE, , ,	61X61	YLM	.00					S1S1S11201
75M15329-FNV-1	A	10898K-N	GROVE	.25	MANUAL	6000	NEEDLE ,INLINE,SHUTOFF , ,	10X10	YLM	.00					S1S1S10206
75M15329-FNV-2	A		GROVE	.75	MANUAL	200	NEEDLE ,INLINE,SHUTOFF , ,	10X10	YLM	.00					S2S2S21200
75M15329-FNV-4	A		GROVE	.25	MANUAL	200	NEEDLE ,INLINE,SHUTOFF , ,	10X10	YLM	.00					S1S1S11200
75M15329-FRV-1	A		OPW	3.00	RELIEF	2	DIR,INLIN, , 1CP, .1/2	10X73	Y	.00					F1B0B10UA0
75M15329-FRV-3	A	6458-3-8-1-55	REPUBLC	.50	RELIEF	125	DIR,ANGLE, , 55CP, 40/125	13X13	YLM	.00					S1S1020200
75M15329-FRV-4	A	649X3-3-12-1-60	REPUBLC	.75	RELIEF	125	DIR,ANGLE, , 60CP, 40/125	10X27	YLM	.00					S1S1020200

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAL MAT	SOFT PART	O RING
75M15329-FRV-5	A	648X3-4-12-T-200	REPUBLC	.75	RELIEF	250	DIR,ANGLE, , 200CP, 115/250	10X27	YLM	.00	S	1	S	1	0
75M15329-FVB-1	A	F509	PARKER	.38	CHECK	60	VAC BR,ANGLE ,HORZ,DIR OP,	09X73	YLM	.00	S	1	A	0	0
75M15511	-		FUTR-CR	.25	MANUAL	3000	GLOBE ,INLINE,FLOW REG,VAC,	13X13	X	.00	S	U	S	0	0
75M15816-PAV-1	-	605-8D 1/2MPTX1/2FLARE	SUPEROR	.50	MANUAL	500	GLOBE ,ANGLE , , ,	09X34	Z	.00	B	0	B	0	0
75M15816-PAV-2	-	A-15158 2 1/8 ODF	MUELLER	2.13	MANUAL	375	GLOBE ,ANGLE ,SHUTOFF , ,	79X79	Z	.00					
75M15816-PAV-4	-	193-15S 1-5/8 ODF	SUPEROR	1.63	MANUAL	375	GLOBE ,ANGLE , , ,	76X76	Z	.00					
75M15816-PCV-1	-	3060-350 PSI MODIFIED	SUPEROR	1.00	RELIEF	350	DIR, , CP,	09X10	Z	.00					
75M15816-PGLV-2	-	R-224-X1 (.25)	KERO-T	.38	MANUAL	375	DIPHRAM, , , ,	76X76	Z	.00					
75M15816-PGLV-5	-	A-14838 1/4 ODF	MUELLER	.25	MANUAL	375	DIPHRAM, , , ,	34X34	Z	.00					
75M15816-PGLV-6	-	FIG 123 (0.25)	LUNKHMR	.25	MANUAL	300	GLOBE ,INLINE,SHUTOFF , ,N	10X10	R	.00	B	1	B	1	2
75M15816-PGLV-7		FIG 123 (1.50)	LUNKHMR	1.50	MANUAL	300	GLOBE ,INLINE,SHUTOFF , ,N	10X10	R	.00	B	1	B	1	2
75M15816-PGLV-8		FIG 123 (3.00)	LUNKHMR	3.00	MANUAL	300	GLOBE ,INLINE,SHUTOFF , ,N	10X10	R	.00	B	1	B	1	2
75M15816-PPR-1	A	137-3 (4.00)	MASON-N	4.00	PRES REG	100	PRS-CT,GLOBE,PNEU ACT,POS,		AB	.00	F	1	S	0	0
75M15816-PPR-11	-	10927EA38 MOD 15_	GROVE	.38	PRES REG	3000	REG,SPR,RLV,MAN, , 300/U	13X13	B	.00	S	1	S	1	0
75M15816-PPR-12		M-12961-A MOD 94	GROVE	.00						.00					
75M15816-PPR-4	-	V5013A MP953A1202	MINNE-H	4.00	DIR CONT	125	SELECT,3W, ,MOTR ACT,POS,	60X60	N	.00	F	1	8	1	1
75M15816-PPR-8	B	40H-50	MOORE	.25	PRES REG	150	REG,COM,RLV,PRS, , 50/L	10X10	B	.00	B	0	0	0	3
75M15816-PSV-1	-	20442% MOD MV123	MAROTTA	.39	SOLENOID	750	SGL,3W,2P,MP,DIR ACT ,	27X27	B	.16	E	0	A	0	5
75M15816-PSV-2	-	83147	ASCO	.25	SOLENOID	80	SGL,3W,2P,NC,PNEU PIL,	34X34	B	.09	0	D	C	0	0
75M15816-PSV-4	-	100HS NEW#HMA42S3-1.63	SPORLAN	1.63	SOLENOID	300	SGL,2W,2P,NC,PILOT OP,	76X76	Z	.00	C	0	0	0	1

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE BODY	MATL TRIM	SEAL MAT	SEAL TYP	OTHER
75M15816-PSV-6	A	8300A74	ASCO	.50	SOLENOID	8	SGL,3W,2P,NO,DIR ACT ,	10X10	AB	.00	B	0	0	0	0
75M15816-PSV-7	A	229604 MV123K EO 2503	MAROTTA	.38	SOLENOID	750	SGL,3W,2P, ,DIR ACT ,S/P	13X13	B	.19	EO	S	0	S	0
75M15816-PSV-9	A	229624 MV123KC EC 2716	MAROTTA	.38	SOLENOID	150	SGL,3W,2P, ,DIR ACT ,	13X13	B	.19	EO	S	1	S	1
75M15978-1	-	11194K089B	GROVE	1.50	MANUAL		, , , ,			.00					
75M16604	-	40051-3 MODIFIED	FUTR-CR	.25	PRES REG	750	REG,SPR, ,SET, , 510/510	19X19	AB	.00	A	0	S	0	0
75M16991	-	V-41600-09	VALCOR	.75	SOLENOID	125	SGL,2W,2P,NO,DIR ACT ,S/P	19X19	B	.50	EO	S	1	S	1
75M16994	-	V-44800-11	VALCOR	.75	SOLENOID	350	SGL,2W,2P,NC,DIR ACT ,S/P	19X19	B	.75	EO	S	1	S	1
75M17761-LCLV-1	A	10031-60	ANNIN	1.00	FLOW REG	300	FLO-CT,GLOBE,PNEU ACT,POS,CRY	62X62	FG	6.0CV	S	1	R	1	1
75M17761-LCLV-2	A	MOD 1660 (2.00)	ANNIN	2.00	FLOW REG	300	FLO-CT,GLOBE,PNEU ACT,POS,CRY	62X62	FG	25.0CV	S	1	R	1	1
75M17761-LCLV-3	A	MOD 1660 (1.50)	ANNIN	1.50	FLOW REG	300	FLO-CT,GLOBE,PNEU ACT,POS,CRY	62X62	FG	16.0CV	S	1	R	1	1
75M17761-LCLV-4	A	MOD 1600 (3.00)	ANNIN	3.00	FLOW REG	300	FLO-CT,GLOBE,PNEU ACT,POS,CRY	62X62	FG	75.0CV	S	1	R	1	1
75M17761-LCLV-5		MOD 1660 (2.00)	ANNIN	2.00	FLOW REG	150	FLO-CT,GLOBE,PNEU ACT,POS,CRY	62X62	FG	25.0CV	S	1	R	1	1
75M17761-LCLV-6	A	MOD 1660 (2.00)	ANNIN	2.00	FLOW REG	300	FLO-CT,GLOBE,PNEU ACT,POS,CRY	62X62	FG	25.0CV	S	1	R	1	1
75M17761-LCV-1	A	S-1100-12KASA	PACIFIC	4.00	CHECK	150	SWING ,INLINE,HORZ,DIR OP,CRY	62X62	FG	530.0CV					
75M17761-LCV-10	A		PACIFIC	1.00	CHECK	5	LIFT ,INLINE,HORZ,DIR OP,	10X10	B	.00	S	1	S	1	2
75M17761-LCV-11	A		SECURTY	.25	CHECK	3500	POPPET,INLINE,ANY ,DIR OP,	27X27	BE	.8CV	S	1	S	1	2
75M17761-LCV-3	A	S-1130-12KASA (2.00)	PACIFIC	2.00	CHECK	300	SWING ,INLINE,HORZ,DIR OP,CRY	62X62	FG	122.0CV					
75M17761-LCV-4	A	G1130-10TASA	PACIFIC	4.00	CHECK	300	SWING ,INLINE,HORZ,DIR OP,CRY	62X62	FG	530.0CV					
75M17761-LCV-8	A	S-1130-12ASA	PACIFIC	2.00	CHECK	150	SWING ,INLINE,HORZ,DIR OP,CRY	62X62	FG	122.0CV					
75M17761-LCV-9	A	S-1130-12KASA (3.00)	PACIFIC	3.00	CHECK	300	SWING ,INLINE,HORZ,DIR OP,CRY	62X62	FG	290.0CV					
75M17761-LGLV-11	A	G427A-16B-768	ROBBINS	1.00	MANUAL	6000	GLOBE ,INLINE, ,CRY,P	13X13	G	.59	OD	S	1	S	1

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAL MAT	SEAL TYP	ORIENT
75M17761-LGLV-3	A	G1710Y-10KASA	PACIFIC	4.00	MANUAL	150	Y-GLOBE,INLINE,FLOW REG,CRY,N	62X62	FG	390.0CV	S1S1131200				
75M17761-LGLV-4	A	10983KP2A	GROVE	.25	MANUAL	3000	GLOBE ,INLINE, , ,P	10X10	B	.00	S1S1021200				
75M17761-LGLV-5	A	10983KP4A	GROVE	.50	MANUAL	3000	GLOBE ,INLINE, , ,N	10X10	B	.00	S1S1021200				
75M17761-LGLV-7	A	DAD-211	FLOMATC	3.00	MANUAL	300	Y-GLOBE,INLINE,FLOW REG,CRY,N	62X62	FG	208.0CV	S1S1131200				
75M17761-LGLV-8	A	DA0211DWG3197	FLOMATC	1.00	MANUAL	300	Y-GLOBE,INLINE,FLOW REG,CRY,N	62X62	FG	24.0CV	S1S1131200				
75M17761-LGV-1	-	S-2195-F6-12T	PACIFIC	1.00	MANUAL	150	GATE ,INLINE, ,CRY,N	10X10	FG	.00	S1S1121200				
75M17761-LGV-10	A	S-2395-F6-12TASA	PACIFIC	2.00	MANUAL	300	GATE ,INLINE, ,CRY,N	62X62	FG	250.0CV	S1S1121200				
75M17761-LGV-11	A	S-2359-F6-12TASA(1.00)	PACIFIC	1.00	MANUAL	300	GATE ,INLINE, ,CRY,N	62X62	FG	39.0CV	S1S1121200				
75M17761-LGV-12	A	S-2359-F6-12TASA(0.50)	PACIFIC	.50	MANUAL	300	GATE ,INLINE, ,CRY,N	62X62	FG	12.0CV	S1S1121200				
75M17761-LGV-15	A		PACIFIC	1.00	MANUAL	150	GATE ,INLINE, ,CRY,N	62X62	FG	39.0CV	S1S1121200				
75M17761-LGV-2	-	70-375-48636-1	POWELL	1.00	MANUAL	300	GATE ,INLINE, ,CRY,N	10X10	FG	.00	S1S1121200				
75M17761-LGV-3	-	S-2395-F6-12	PACIFIC	.50	MANUAL	300	GATE ,INLINE, ,CRY,N	10X10	FG	.00	S1S1121200				
75M17761-LGV-6	A	S-8530-F8-12TASA(4.00)	PACIFIC	4.00	MANUAL	300	GATE ,INLINE, ,CRY,N	62X62	FG	.00	S1S1121200				
75M17761-LGV-8	A	S-853C-F8-12TASA(3.00)	PACIFIC	3.00	MANUAL	300	GATE ,INLINE, ,CRY,N	62X62	FG	540.0CV	S1S1121200				
75M17761-LGV-9	A	S-8550-F8-12TASA	PACIFIC	3.00	MANUAL	150	GATE ,INLINE, ,CRY,N	62X62	FG	540.0CV	S1S1121200				
75M17761-LNV-1	A	MV60G4T-P	CONTROL	.25	MANUAL	5000	NEEDLE ,INLINE, ,CRY,P	13X13	FG	.3CV	S1S1121200				
75M17761-LNV-2	A	MV5008T-P	CONTROL	.50	MANUAL	5000	NEEDLE ,INLINE, ,CRY,P	13X13	FG	1.5CV	S1S1121200				
75M17761-LPRV-1	-	MOD 15SX	GROVE	.25	PRES REG	3000	REG,SPR,RLV,MAN, , 60/C	10X10	B	.00					
75M17761-LPRV-2	-	MOD 94	GROVE	.25	PRES REG	5000	REG,DOM,N-R,MAN, ,3000/250	10X10	B	.00					
75M17761-LPRV-4	-		HOKE	.25	PRES REG	250	REG,SPR, ,MAN, , 1/0	10X10	B	.00					
75M17761-LPRV-5	-	MOD 94W	GROVE	.25	PRES REG	3500	REG,DOM,N-R,PRS, ,1000/5	10X10	B	.00					

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL: EDDY	DIM	TREAT	SSEAT	OTHR
75M17761-LPRV-6	-		GROVE	.25	PRES REG	3500	REG,SPR,RLV,MAN, ,1000/0	10X10	E	.00					
75M17761-LRV-1	A	D-10D/L3	LONERGN	1.00	RELIEF	150	DIR, CRY, 100CP, ADJ CP	62X62	G	.00					
75M17761-LRV-10	A	D-10D/S4	LONERGN	1.00	RELIEF	150	DIR, CRY, 3CP, ADJ CP	62X62	G	.00					
75M17761-LRV-11	A	D-20D/S4	LONERGN	1.00	RELIEF	150	DIR, CRY, 230CP, ADJ CP	62X62	G	.00					
75M17761-LRV-12	A	D-10E/S4	LONERGN	1.00	RELIEF	150	DIR, CRY, 120CP, ADJ CP	62X62	G	.00					
75M17761-LRV-14	A	1906LCL8	MMM	3.00	RELIEF	300	DIR, CRY, 205CP, ADJ CP	62X62	G	.00					
75M17761-LRV-17	A		BS&B	4.00	RELIEF	150	DIR, CRY, 1CP,	62X62	G	.00					
75M17761-LRV-2	A	D-30D/S4	LONERGN	1.00	RELIEF	300	DIR, CRY, 300CP, ADJ CP	62X62	G	.00					
75M17761-LRV-22	A		LUNKHMR	1.00	RELIEF	300	DIR, CRY, 90CP, ADJ CP	62X62	G	.00					
75M17761-LRV-23	A	D-30F/S4	LONERGN	1.00	RELIEF	300	DIR, CRY, 300CP, ADJ CP	62X62	G	.00					
75M17761-LRV-24	A	D-20D/S4	LONERGN	1.00	RELIEF	300	DIR, CRY, 230CP, ADJ CP	62X62	G	.00					
75M17761-LRV-25	A	D-20D/S4	LONERGN	1.00	RELIEF	300	DIR, CRY, 120CP, ADJ CP	62X62	G	.00					
75M17761-LRV-26	A		J,P&C	.25	RELIEF	25	DIR, , 30CP,	09X09	B	.00	S1S11212S3				
75M17761-LRV-27	A		J,P&C	.25	RELIEF	750	DIR, , CP,	27X13	B	.00	S1S11212S3				
75M17761-LRV-28	A		J,P&C	.25	RELIEF	3500	DIR, , CP,	10X10	B	.00	S1S11212S3				
75M17761-LRV-3	A		LONERGN	.50	RELIEF	150	DIR, CRY, 15CP, ADJ CP	62X62	G	.00					
75M17761-LRV-30	A	D-10E/S4	LONERGN	1.00	RELIEF	150	DIR, CRY, 90CP, ADJ CP	62X62	G	.00					
75M17761-LRV-31	A	D-10D/S4	LONERGN	1.00	RELIEF	150	DIR, CRY, 75CP, ADJ CP	62X62	G	.00					
75M17761-LRV-4	A		LONERGN	.50	RELIEF	150	DIR, CRY, 75CP, ADJ CP	62X62	G	.00					
75M17761-LRV-5	A		LONERGN	.50	RELIEF	300	DIR, CRY, 250CP, ADJ CP	62X62	G	.00					
75M17761-LRV-6	A		MMM	1.00	RELIEF	150	DIR, CRY, 75CP, ADJ CP	62X62	G	.00					

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAT	SPRING	O RING	MATL SPEC
75M17761-LRV-7	A	D-300/L3	LONERGN	1.00	RELIEF	150	DIR, CRY, 200CP, ADJ CP	62X62	G	.00						
75M17761-LRV-8	A		LONERGN	1.00	RELIEF	300	DIR, CRY, 300CP, ADJ CP	62X62	G	.00						
75M17761-LRV-9	A		LONERGN	1.50	RELIEF	300	DIR, CRY, 300CP, ADJ CP	62X62	G	.00						
75M17761-LSOV-7	A	11756-6	HADLEY	2.00	FLOW REG	750	SHUTOF, ,PNEU ACT,DIR,CRY	62X62	FG	114.0CV						
75M17761-LSOV-10	A		HADLEY	3.00	FLOW REG	750	SHUTOF, ,PNEU ACT,DIR,CRY	62X62	FG	310.0CV						
75M17761-LSOV-3	A	F913-2	PARKER	4.00	FLOW REG	750	SHUTOF, ,PNEU ACT,DIR,CRY	62X62	FG	780.0CV						
75M17761-LSOV-4	A	F913-1	PARKER	4.00	FLOW REG	750	SHUTOF, ,PNEU ACT,DIR,CRY	62X62	FG	780.0CV						
75M17761-LSOV-5	A	11830-6	HADLEY	3.00	FLOW REG	750	SHUTOF, ,PNEU ACT,DIR,CRY	62X62	FG	310.0CV						
75M17761-LSOV-9	A	F910-1	PARKER	1.00	FLOW REG	750	SHUTOF, ,PNEU ACT,DIR,CRY	27X27	FG	30.0CV						
75M17763-HBV-1	-	F602S6T (0.50)	HILLS	.50	MANUAL	200	BALL ,INLINE, , ,	10X10	B	.00						S1S1131200
75M17763-HBV-2	-	F602S6T (2.00)	HILLS	2.00	MANUAL	100	BALL ,INLINE, , ,	10X10	E	.00						S1S1131200
75M17763-HBV-4	-		HILLS	.75	MANUAL	200	BALL ,INLINE, , ,	10X10	B	.00						S1S1131200
75M17763-HCLV-2	-	MOD 1700-1	ANNIN	1.00	FLOW REG	100	FLO-CT,GLOBE,PNEU ACT,POS,J/C	89X89	H	15.0CV						S1S1131200
75M17763-HCLV-3	-	MOD 1760CB	ANNIN	1.50	FLOW REG	100	FLO-CT,GLOBE,PNEU ACT,POS,J/C	88X88	H	13.0CV						S1S1130000
75M17763-HCLV-4	-	MOD 1760-2	ANNIN	2.00	FLOW REG	100	FLO-CT,GLOBE,PNEU ACT,POS,J/C	88X88	H	46.0CV						S1S1130000
75M17763-HCLV-5	-	MOD 1660 (3.00)	ANNIN	3.00	FLOW REG	100	FLO-CT,GLOBE,PNEU ACT,POS,CRY	62X62	H	110.0CV						S1S1130000
75M17763-HCV-11	-	K220T1-6BB-2	J,P&C	.38	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,CRY	13X13	BCH	.00						S1S1121200
75M17763-HCV-12	-	K220T1-8PP-K	J,P&C	1.00	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,CRY	10X10	GBC	.00						S1S1121200
75M17763-HCV-13	-	K220T1-16MM-K	J,P&C	1.00	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,CRY	09X09	GBC	.00						S1S1121200
75M17763-HCV-3	-	859T1-2BB3	CIRSEAL	.75	CHECK	100	POPPET,INLINE,ANY ,DIR OP,	13X13	B	.00						S1S1020200
75M17763-HCV-5	-	K220T1-12BB-2	J,P&C	.75	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,CRY	13X13	FH	.00						S1S1121200

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAL MAT	SEAL TYPE	O RING
75M17763-HCV-6	-	PB117947	CRANE	3.00	CHECK	100	,INLINE, ,DIR OP,CRY	62X62	FH	250.0CV	S1S1130000				
75M17763-HCV-6	-	02905	SEALOL	3.00	CHECK	100	,INLINE, ,DIR OP,CRY	62X62	FH	250.0CV	S1S1130000				
75M17763-HGLV-1	-	SSKG250-4T	ROBBINS	.25	MANUAL	150	GLOBE ,INLINE, ,CRY,	13X13	HCD	.00	S1S1131200				
75M17763-HGLV-10	P	G710YJ10KWE3	PACIFIC	2.00	FLOW REG	350	SHUTOF,BUTRF,PNEU ACT,DIR,CRY	60X60	G	.00	S0S0000000				
75M17763-HGLV-16	-	SSNA250-4T	ROBBINS	.25	MANUAL	150	GLOBE ,ANGLE , ,CRY,	13X13	HCD	.00	S1S1131200				
75M17763-HGLV-18	-	FIG 70-186KOSE	POWELL	.50	MANUAL	150	GLOBE ,INLINE, ,CRY,	10X10	HCD	.00	S1S1130000				
75M17763-HGLV-19	-	MOD 1820-4	ANNIN	4.00	FLOW REG	150	FLO-CT,Y-GLO,PNEU ACT,DIR,J/C	89X89	HCD	270.0CV	S1S1130000				
75M17763-HGLV-2	-	FR62S	VAC-ELE	.75	MANUAL	50	GLOBE ,ANGLE ,SHUTOFF ,VAC,N	76X76	HCD	.00	0000131200				
75M17763-HGLV-20	-	MOD 1820-4	ANNIN	4.00	FLOW REG	150	SHUTOF,Y-GLO,PNEU ACT,DIR,J/C	89X89	HCD	270.0CV	S1S1130000				
75M17763-HGLV-21	-	MOD 1820-4	ANNIN	4.00	FLOW REG	150	SHUTOF,Y-GLO,PNEU ACT,DIR,J/C	89X89	HCD	270.0CV	S1S1130000				
75M17763-HGLV-22	-	MOD 1820-2	ANNIN	2.00	FLOW REG	150	SHUTOF,Y-GLO,PNEU ACT,DIR,J/C	89X89	HCD	46.0CV	S1S1130000				
75M17763-HGLV-23	-	MOD 1800-3	ANNIN	3.00	FLOW REG	150	SHUTOF,Y-GLO,PNEU ACT,DIR,J/C	89X89	HCD	170.0CV	S1S1130000				
75M17763-HGLV-24	-	L1Y10FA405-2766	PACIFIC	4.00	MANUAL	150	Y-GLOBE,INLINE,FLOW REC,CRY,N	62X62	HCD	270.0CV	S1S1130000				
75M17763-HGLV-27	-	5071-1010-4	APCO	.50	MANUAL	150	GLOBE ,INLINE,SHUTOFF , ,	13X13	CD	.00	S1S1130000				
75M17763-HGLV-28	-	Z929T2PPP	J,F&C	.25	DIR CONT	150	SELECT,3W,2P,MAN ACT ,DIR,	10X10	CD	.00	S1S1131200				
75M17763-HGLV-29	-	5071-1010-2	APCO	.25	MANUAL	150	GLOBE ,INLINE,SHUTOFF , ,	10X10	CD	.00	S1S1130000				
75M17763-HGLV-3	-	FIG 3-8-701F6-12K	PACIFIC	.38	MANUAL	100	GLOBE ,INLINE, ,CRY,	10X10	HCD	.00	S1S1130000				
75M17763-HGLV-31	-	70-1861KOSE	POWELL	.25	MANUAL	150	GLOBE ,INLINE,SHUTOFF ,CRY,	10X10	CDH	.00	S1S1130000				
75M17763-HGLV-32	-		POWELL	1.50	MANUAL	50	GLOBE ,INLINE, , ,	10X10	CD	.00	B1B1121300				
75M17763-HGLV-5	-	MOD 1720-1 1-2IN	ANNIN	1.50	FLOW REG	100	SHUTOF,GLOBE,PNEU ACT,DIR,J/C	89X89	HCD	30.0CV	S1S1130000				
75M17763-HGLV-6	-	MOD 1620-1 1-2IN	ANNIN	1.50	FLOW REG	100	SHUTOF,GLOBE,PNEU ACT,DIR,CRY	62X62	HCD	25.0CV	S1S1130000				

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAL	SOLT	OTHR
75M17763-HGLV-7	-	MOD 1710-2	ANNIN	2.00	MANUAL	150	GLOBE ,INLINE, ,J/C,N	89X89	HCD	55.0CV	S	1	S	1	30000
75M17763-HGLV-8	-	FL100S	VAC-ELE	1.00	MANUAL	50	GLOBE ,INLINE,SHUTOFF ,VAC,N	76X76	HCD	.00	S	1	S	1	31200
75M17763-HGLV-9	-	MOD 1720-2	ANNIN	2.00	FLOW REG	150	SHUTOF,GLOBE,PNEU ACT,DIR,J/C	89X89	HCD	55.0CV	S	1	S	1	30000
75M17763-HGV-1	-	S-8550-EB (1C-12ASA)	PACIFIC	3.00	MANUAL	150	GATE ,INLINE, ,CRY,N	62X62	CDH	400.0CV	S	1	S	1	01200
75M17763-HGV-4	-		POWELL	1.00	MANUAL	50	GATE ,INLINE, , ,	10X10	D	.00	B	U	S	1	01200
75M17763-HPV-1	-	FIG FG321	DURCO	2.00	DIR CONT	100	SELECT,3W,2P,MAN ACT ,DIR,CRY	62X62	HCD	.00	S	1	S	1	31200
75M17763-HRV-1	-	1975 SPECIAL	MMM	.50	RELIEF	90	DIR,ANGLE,CRY, 90CP, ADJ CP	62X10	HCD	.04	OD	S	1	S	10000
75M17763-HRV-12	-	1970C SPECIAL	MMM	1.00	RELIEF	90	DIR,ANGLE,CRY, 90CP, ADJ CP	62X10	HCD	.20	OD	S	1	S	10000
75M17763-HRV-14	-	D-100/S4	LONERGN	1.00	RELIEF	90	DIR,ANGLE,CRY, 90CP, ADJ CP	62X62	HCD	.11	OA	S	1	S	10000
75M17763-HRV-3	-	1905 SPECIAL	MMM	.50	RELIEF	90	DIR,ANGLE,CRY, 90CP, ADJ CP	62X62	HCD	.04	OD	S	1	S	10000
75M17763-HRV-5	-	DWG A1863	MMM	1.50	RELIEF	90	DIR,ANGLE,CRY, 90CP, ADJ CP	62X62	HCD	.79	OA	S	1	S	10000
75M17763-HRV-6	-	D-100/L3	LONERGN	1.00	RELIEF	90	DIR,ANGLE,CRY, 90CP, ADJ CP	62X62	HCD	.20	OA	S	1	S	10000
75M17763-HRV-7	-		LONERGN	4.00	RELIEF	80	DIR,ANGLE,CRY, 80CP, ADJ CP	62X62	HCD	6.38	OA	S	1	S	10000
75M17763-HRV-8	-	LCT 1154-1	LONERGN	1.00	RELIEF	90	DIR,ANGLE,CRY, 90CP, ADJ CP	62X62	HCD	.11	OD	S	1	S	10000
75M17763-HSV-1	-	222453 MOD 7419	MAROTTA	.25	SOLENOID	750	SGL,3W,2P,MP,DIR ACT ,	27X27	ABC	.12	EO	A	1	0	1140000
75M18527	A	5A10 (MODIFIED)	FLODYNE	.50	MANUAL	1500	BALL ,INLINE,SHUTOFF , ,N	13X13	AB	.39	OD	S	O	A	0000000
75M18599	C	806203-1 MOD PVM526B1A	MAROTTA	1.00	SOLENOID	1500	SGL,3W,2P,NC,PNEU PIL,S/P	19X19	ABC	.00		S	1	S	1000000
75M21809-2		227154-2	MAROTTA	1.00	SOLENOID		, , , , ,			.00					
75M21842-1	A		RACINE	1.50	FLOW REG	4500	FLO-CT,DECEL,CAM ACT ,DIR,	68X68	X	.00		0	0	0	0600
75M25050		15SV-9072	AUTOCLV	.25	MANUAL		, , , ,			.00					
75M25050		SSNG250-4T-768	RCBBINS	.25	MANUAL		, , , ,			.00					

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAT	SOLT	OTHR
75M25395-1-5-2	-	1881-5066	TESCOM	.38	MANUAL	6000	GLOBE ,ANGLE ,SHUTOFF , ,P	19X19	ABC	.36 EO	S1S11302S3				
75M25395-1-7-2	-	5354-4096	TESCOM	.56	MANUAL	6000	GLOBE ,ANGLE ,SHUTOFF , ,P	46X46	ABC	.36 EO	S1S11302S3				
75M25395-3-9-2	-	30-1301-908-023	TESCOM	.50	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P		ABC	.00	S1S11302S3				
75M25439-1		10898K-N	GROVE	.25	MANUAL		, , , ,			.00					
75M25439-1		SSNG250-4T	ROBBINS	.25	MANUAL		, , , ,			.00					
75M25440-1		33860-1A	SECURTY	.00						.00					
75M25440-2		33860-1B	SECURTY	.00						.00					
75M25441-1		A1127-1	SECURTY	.25	MANUAL		, , , ,			.00					
75M25441-1		NV-6P-401B-2M	VACCO	.25	MANUAL		, , , ,			.00					
75M25442-1		CVL-02P-F468	VACCO	2.00	CHECK		, , , ,			.00					
75M25442-2		CVL-6P-X465	VACCO	1.00	CHECK		, , , ,			.00					
75M25442-4		CVL-6P-X469	VACCO	2.50	CHECK		, , , ,			.00					
75M25442-5		CVL-6P-X464	VACCO	.75	CHECK		, , , ,			.00					
75M25443-1		M-6P-X464-2G	VACCO	.75	MANUAL		, , , ,			.00					
75M25443-2		M-6P-X465-2G	VACCO	1.00	MANUAL		, , , ,			.00					
75M25443-3		M-6P-X466-2G	VACCO	1.25	MANUAL		, , , ,			.00					
75M25443-4		M-6P-X469-2G	VACCO	2.50	MANUAL		, , , ,			.00					
75M25443-5		M-6P-X467-2G	VACCO	.00						.00					
75M25444-1		10898K-N	GROVE	.25	MANUAL		, , , ,			.00					
75M25444-1		NV-6P-401B-2M	VACCO	.25	MANUAL		, , , ,			.00					
75M25446-1		10898K-N	GROVE	.25	MANUAL		, , , ,			.00					

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE BODY	MATL TRIM	SEAL	SEAT	OTHR
75M25446-1		NVA-6P-401-2G	VACCO	.25	MANUAL		, , , ,			.00					
75M25447-1		NVA-6P-462-2G	VACCO	.38	MANUAL		, , , ,			.00					
75M25448-1		MA-6P-X463-2G	VACCO	.50	MANUAL		, , , ,			.00					
75M25449-1		MA-6P-X464-2G	VACCO	.75	MANUAL		, , , ,			.00					
75M25451-1		BPR-6P-X466-04	VACCO	1.25	PRES REG					.00					
75M25452-1		BPR-6P-X469-06	VACCO	2.50	PRES REG					.00					
75M25453-1		158S-FF	LADEWIG	.00						.00					
75M25453-3		N-1072	LADEWIG	.00						.00					
75M25461-1		558455-3162	WORTHN	.00						.00					
75M25470-1		3	CRANE	.00						.00					
75M25476-1		S-8550-F6-12T	PACIFIC	.00						.00					
75M25476-2		G8550-F8-12T	PACIFIC	2.00	MANUAL		, , , ,			.00					
75M25476-3		S-8550-F8-12T	PACIFIC	.00						.00					
75M25476-4		S-8550-F8-12TASA	PACIFIC	.00						.00					
75M25481-1		912RS ASSY NO A2503	SECURTY	.00						.00					
75M25482-4		912RS	SECURTY	.00						.00					
75M25484-1		3061A-FE (.75)	POWELL	.75	CHECK		, , , ,			.00					
75M25485-1		1520	MISSION	.00						.00					
75M25488-2		MOD 1660 TRIM 135L	ANNIN	.00						.00					
75M25488-4		MOD 1660	ANNIN	.00						.00					
75M25494-1		M02T-F4610	VACCO	3.00	MANUAL		, , , ,			.00					

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE BODY	MATL DIR	MATL SEAT	MATL ACT	MATL OTH
75M25495-1		118-E-1	BAILEY	.00						.00					
75M25496-1		70-2714 (1.00)	POWELL	1.00	MANUAL		, , , ,			.00					
75M25497-1		70-376FE	POWELL	1.00	MANUAL		, , , ,			.00					
75M25498-1		70-375SE	POWELL	1.00	MANUAL		, , , ,			.00					
75M25499-1		70-376SE	POWELL	1.00	MANUAL		, , , ,			.00					
75M25500-2		70-1414G	POWELL	2.00	MANUAL		, , , ,			.00					
75M25502-1		D-39842	POWELL	.00						.00					
75M25505-1		5159T1-2MP-100	CIRSEAL	.25	RELIEF		, CP,			.00					
75M25506-1		249T1-4TT	CIRSEAL	.25	CHECK		, , , ,			.00					
75M25507-1		TL	OCECO	.00						.00					
75M25512-1		FIG FG	DURCO	1.00	MANUAL		, , , ,			.00					
75M25514-1		P1-418T	CIRSEAL	.25	DIR CONT					.00					
75M25527-1		SSKG250-4T-768	ROBBINS	.25	MANUAL		, , , ,			.00					
75M25527-2		SSTG250-4C-768	ROBBINS	.25	MANUAL		, , , ,			.00					
75M25528-1		LTM2600125-3-17	JENKINS	.00						.00					
75M25528-2		LTM2600125-7-12	JENKINS	.00						.00					
75M25528-3		LTM2600125-4-17	JENKINS	.00						.00					
75M25529-1		559T-2M-10	J.P&C	.25	RELIEF		, CP,			.00					
75M25531-1		MOD 15L	GROVE	.00						.00					
75M25533-1		204	NCG	.00						.00					
75M25535-1		40395	POWELL	.00						.00					

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAL MAT	SEAL TYP	OTHER
75M25536-1		70-1357FF	POWELL	1.00	CHECK		, , , ,			.00					
75M25542-1		2600299	COSMODN	.00						.00					
75M25545-1		808-0-5-4-K	DRAGON	.25	MANUAL		, , , ,			.00					
75M25546-1		SB-4-122	BAILEY	4.00	RELIEF		, CP,			.00					
75M25547-1		105-2	POWELL	2.00	MANUAL		, , , ,			.00					
75M25555-1		44-11394	AMINCO	.00						.00					
75M25556-1		15SV-9072	AUTOCLV	.56	MANUAL		, , , ,			.00					
75M25557-1		44-TG-8	FL-MECH	.50	RELIEF		, CP,			.00					
75M25558-1		53.562	FL-MECH	.56	CHECK		, , , ,			.00					
75M25560-1		HIV-4B	ANDGRWD	.50	MANUAL		, , , ,			.00					
75M25562-1		5072X1004-1	APCO	.75	MANUAL		, , , ,			.00					
75M25563-1		1-3300	CIRSEAL	.00						.00					
75M25564-1		117-B-100-10	CORNELS	.00						.00					
75M25565-1		10942LP2A MOD 15LHXG	GROVE	.25	PRES REG					.00					
75M25567-1		10927AA3B MOD 15L	GROVE	.38	PRES REG					.00					
75M25568-1		11LJ0016	HYDRMAT	.00						.00					
75M25569-1		DL6P3-X465	VACCO	1.00	PRES REG					.00					
75M25570-1		FIG 89 (1.00)	KENNEDY	1.00	MANUAL		, , , ,			.00					
75M25574-1		NV-6P-403-2G-915	VACCO	.56	MANUAL		, , , ,			.00					
75M25576-1		M-12921A MOD 94	GROVE	.25	PRES REG					.00					
75M25578-1		8010MR-B	SUPEROR	.00						.00					

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAT	SOL	OTHR
75M25711-1		B51017	POWELL	.00						.00					
75M25729-1		MOD 6510	ANNIN	.00						.00					
75M25731-1		249T-4TT	CIRSEAL	.25	CHECK	3000	POPPET,INLINE, , ,		BCD	.00					
75M25790-NCAV-18		90633-20-NPT-LOX	FUTR-CR	.25	DIR CONT	400	CALIBRATN		ABC	.00					
75M50149-1	G	299T1-4NV	J,P&C	.25	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X19	ABC	.00	S1S1S10200				
75M50149-1	G	1-9133 (911A)	SAGE	.25	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X19	ABC	.00	S1S1S10200				
75M50149-2	G	299T1-6NV	J,P&C	.38	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X19	ABC	.00	S1S1S10200				
75M50149-2	G	299T1-6ZV	J,P&C	.38	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X19	ABC	.00	S1S1S10200				
75M50149-3	G	299T1-8NV	CIRSEAL	.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X19	ABC	.00	S1S1S10200				
75M50149-3	G	299T1-8TT	CIRSEAL	.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X19	ABC	.00	S1S1S10200				
75M50149-3	G	299T1-8NV	J,P&C	.50	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X19	ABC	.00	S1S1S10200				
75M50149-4	G	299T1-12NV	J,P&C	.75	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X19	ABC	.00	S1S1S10200				
75M50149-6	G	299T1-20NV	J,P&C	1.25	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	18X19	ABC	.00	S1S1S10200				
75M50161-1	H	30404S	FUTR-CR	.25	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	13X13	ABC	.17 OD	S1S1S102A1				
75M50161-3	H	30406S	FUTR-CR	.38	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	13X13	ABC	.30 OD	S1S1S102A1				
75M50161-5	H	30408S	FUTR-CR	.50	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	13X13	ABC	.40 OD	S1S1S102A1				
75M50161-7	H	30412S	FUTR-CR	.75	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	13X13	ABC	.61 OD	S1S1S102A1				
75M50161-9	H	30416S	FUTR-CR	1.00	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	13X13	ABC	.84 OD	S1S1S102A1				
75M50163-1	E	227974-0 MOD SPV29A	MAROTTA	1.00	MANUAL	6000	GLOBE ,OFFSET,SHUTOFF , ,P	19X19	ABC	.81 OD	S1S1140225				
75M50165-1	J	10929HK2B MOD 15LH	GROVE	.25	PRES REG	6000	REG,SPR,RLV,MAN, ,1000/L	19X19	ABC	.00	S1S1S11402				
75M50165-18	J	10931PK38 MOD 15KX	GROVE	.38	PRES REG	6000	REG,SPR,RLV,MAN, ,6000/0	19X19	ABC	.00	S1S1S11402				

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY MATL	TRIM MATL	SEAT MATL	SEAL MATL	OTHER MATL
75M50165-11	J	10931MK3B MOD 15KX	GROVE	.38	PRES REG	6000	REG,SPR,RLV,MAN, ,3500/U	19X19	ABC	.00	S	1	S	1	S11402
75M50165-13	J	10931MK2B MOD 15KX	GROVE	.25	PRES REG	6000	REG,SPR,RLV,MAN, ,3500/U	19X19	ABC	.00	S	1	S	1	S11402
75M50165-2	J	10929KK2B MOD 15LH	GROVE	.25	PRES REG	6000	REG,SPR,RLV,MAN, ,2000/U	19X19	ABC	.00	S	1	S	1	S11402
75M50165-3	J	10928AK3B MOD 15LX	GROVE	.38	PRES REG	6000	REG,SPR,RLV,MAN, , 25/U	19X19	ABC	.00	S	1	S	1	S11402
75M50165-4	J	10928CK3B MOD 15LX	GROVE	.38	PRES REG	6000	REG,SPR,RLV,MAN, , 60/U	19X19	ABC	.00	S	1	S	1	S11402
75M50165-5	J	10928CK3B MOD 15LX	GROVE	.38	PRES REG	6000	REG,SPR,RLV,MAN, , 150/U	19X19	ABC	.00	S	1	S	1	S11402
75M50165-8	J	10929HK3B MOD 15LH	GROVE	.38	PRES REG	6000	REG,SPR,RLV,MAN, ,1000/U	19X19	ABC	.00	S	1	S	1	S11402
75M50165-9	J	10929KK3B MOD 15LH	GROVE	.38	PRES REG	6000	REG,SPR,RLV,MAN, ,2000/U	19X19	ABC	.00	S	1	S	1	S11402
75M50182	H	187040-2	LEONARD	.25	PRES REG	3000	REG,SPR,RLV,SET, ,1000/100	19X19	ABC	.00	S	1	S	1	40200
75M50302	F	MOD 44-3-TC-1C 2-920	FL-MECH	1.00	RELIEF	16000	DIR,ANGLE, ,8000CP,	68X68	ABC	.50	OD	S	1	S	1140200
75M50304	G	MOD 6510-T (2)XXSGR14	ANNIN	2.00	MANUAL	6000	GLOBE ,OFFSET,FLOW REG, ,	68X68	ABC	.00	S	1	S	1	21202
75M50305-1	K	T-1538 MOD 401F	GROVE	1.50	PRES REG	6000	REG,DOM,RLV,PRS, ,3500/U	68X68	ABC	.38	OD	S	1	S	1140213
75M50305-4	K	T-1541 MOD 401F	GROVE	1.50	PRES REG	6000	REG,DOM,RLV,PRS, ,3500/U	68X68	ABC	1.00	OD	S	1	S	1140213
75M50306-2	G	MOD 4510-T (2)16ESGR2C	ANNIN	2.00	MANUAL	3000	GLOBE ,OFFSET,FLOW REG, ,	68X68	ABC	.00	S	1	S	1	40212
75M50311-11	C	116-B-100-12	CORNELS	.25	RELIEF	2800	DIR,INLIN, ,1850CP,	18X73	ABC	.00	S	1	S	1	40200
75M50311-2	C	116-B-100-2	CORNELS	.25	RELIEF	5000	DIR,INLIN, ,3350CP,	18X73	ABC	.00	S	1	S	1	40200
75M50341-1	G	T-1534 MOD 401F	GROVE	1.50	PRES REG	3500	REG,DOM,RLV,PRS, ,3000/U	19X19	ABC	.38	OD	S	1	S	1140213
75M50341-2	G	T-1535 MOD 401F	GROVE	1.50	PRES REG	3500	REG,DOM,RLV,PRS, ,3000/U	19X19	ABC	.50	OD	S	1	S	1140213
75M50341-3	G	T-1535 MOD 401F	GROVE	1.50	PRES REG	3500	REG,DOM,RLV,PRS, ,3000/U	19X19	ABC	.75	OD	S	3	S	1140213
75M50726-2	E	128390-4	LEONARD	.25	PRES REG	6000	REG,SPR,N-R,SET, , 450/20	18X18	ABC	.00	S	1	S	1	30200
75M51046	B	A1127-2	SECURTY	.75	CHECK	6000	,INLINE,ANY ,DIR OP,	68X68	ABC	9.3CV	S	1	S	1	40200

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAT	SOL	OTHR
75M51063-1		227974-0 MOD SPV29A	MAROTTA	.00						.00					
75M51063-2	E	227974-3 MOD SPV29A	MAROTTA	.75	MANUAL	6000	GLOBE ,OFFSET,SHUTOFF , ,P	19X19	ABC	.61 OD	S1S	1140225			
75M51064-1	D	229744 MOD HVA12D	MAROTTA	.75	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	19X19	ABC	.50 OD	S1S	1140212			
75M51064-2	D	229714 MOD HVA8D	MAROTTA	.50	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	19X19	ABC	.35 OD	S1S	1140212			
75M51076-1	B	3510-0083	CARDAIR	.25	MANUAL	6000	GLOBE ,OFFSET,SHUTOFF , ,P	19X19	ABC	.17 OD	S1S	1S10200			
75M51076-2	B	3510-0082	CARDAIR	.38	MANUAL	6000	GLOBE ,OFFSET,SHUTOFF , ,P	19X19	ABC	.30 OD	S1S	1S10200			
75M51077-3	B	5A11	FLODYNE	.50	MANUAL	3000	BALL ,INLINE,SHUTOFF , ,P	19X19	BCX	.50 OD	S1S	1120200			
75M51102	C	230434-6000 MOD RV52DY	MAROTTA	1.00	PRES REG	6000	REG,DOM,RLV,PRS, ,6000/0	19X19	ABC	.45 OD	S1S	1140200			
75M51145	B	228314-21 MOD HVA1EA	MAROTTA	1.00	MANUAL	6000	GLOBE ,ANGLE ,FLOW REG, ,P	19X19	ABC	.81 OD	S1S	1140200			
75M51155-1	C	228164-1	J,P&C	.75	MANUAL	6000	GLOBE ,OFFSET,FLOW REG, ,P	68X68	ABC	.61 OD	S1S	1140225			
75M51155-1	C	228164-1 MOD SPV29B	MAROTTA	.75	MANUAL	6000	GLOBE ,OFFSET,FLOW REG, ,P	68X68	ABC	.61 OD	S1S	1140225			
75M51155-2	C	228164-2 MOD SPV29B	MAROTTA	1.00	MANUAL	6000	GLOBE ,OFFSET,FLOW REG, ,P	68X68	ABC	.81 OD	S1S	1140225			
75M51156	B	228174-2 MOD SPV29BA	MAROTTA	1.00	MANUAL	6000	GLOBE ,OFFSET,FLOW REG, ,P	68X68	ABC	.81 OD	S1S	1140225			
75M51163-3	A	1/2-B-98728-B	CRANE	.50	MANUAL	1000	BALL ,INLINE,SHUTOFF , ,P	19X19	R	.00	S1S	1120602			
75M51163-4	A	3/4-B-98728-B	CRANE	.75	MANUAL	1000	BALL ,INLINE,SHUTOFF , ,P	19X19	R	.00	S1S	1120602			
75M51164-1	A	1.5-K-5589-B	CRANE	1.50	MANUAL	650	BALL ,INLINE,SHUTOFF , ,P	68X68	ABC	.00	S1S	1120602			
75M51166		1-5273(511-8B-8AA)E6CC	SAGE	.00						.00					
75M51166-1	B	5379T1-8VV-1200	CIRSEAL	.50	RELIEF	7800	DIR,INLIN, ,1200CP,	19X19	ABC	.13 OD	S1S	1141202			
75M51166-2	B	5379T1-8VV-5200	CIRSEAL	.50	RELIEF	7800	DIR,INLIN, ,5200CP,	19X19	ABC	.13 OD	S1S	1141202			
75M51166-2	B	10931MK28 MOD 15KX	GROVE	.50	RELIEF	7800	DIR,INLIN, ,5200CP,	19X19	ABC	.13 OD	S1S	1141202			
75M51166-2	B	5379T1-8VV-5200	J,P&C	.50	RELIEF	7800	DIR,INLIN, ,5200CP,	19X19	ABC	.13 OD	S1S	1141202			

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE BODY	MATL TRIM	SEAL MAT	OTHER
75M51166-2	B	1-5274(511-8B-8AA)330D	SAGE	.50	RELIEF	780D	DIR,INLIN, ,5200CP,	19X19	ABC	.13 OD	S1S1141202			
75M51166-2	B	1-5274(511-8B-8AA)35CC	SAGE	.50	RELIEF	780D	DIR,INLIN, ,5200CP,	19X19	ABC	.13 OD	S1S1141202			
75M51166-3	B	5379T1-8VV-1800	J,P&C	.50	RELIEF	2700	DIR,INLIN, ,1800CP,	19X19	ABC	1.30 OD	S1S1141202			
75M51168-1	A	230344-LA11 MOD RV31G	MAROTTA	.25	PRES REG	6000	REG,SPR,RLV,SET, ,4500/L	19X19	ABC	.00	S1S1140225			
75M51247-1	B	TM-163 6404A1	CALMEC	3.00	FLOW REG	6000	SHUTOF,Y-GLO,PNEU ACT,PIL,	68X68	ABC	.00	S1S1131206			
75M51247-1	B	TM-163 6406A2	CALMEC	3.00	FLOW REG	6000	SHUTOF,Y-GLO,PNEU ACT,PIL,	68X68	ABC	.00	S1S1131206			
75M51247-1	B	TM-163 6406A3	CALMEC	3.00	FLOW REG	6000	SHUTOF,Y-GLO,PNEU ACT,PIL,	68X68	ABC	.00	S1S1131206			
75M51247-1	B	TM-163 6406A6	CALMEC	3.00	FLOW REG	6000	SHUTOF,Y-GLO,PNEU ACT,PIL,	68X68	ABC	.00	S1S1131206			
75M51247-1	B	TM-163 6406A7	CALMEC	3.00	FLOW REG	6000	SHUTOF,Y-GLO,PNEU ACT,PIL,	68X68	ABC	.00	S1S1131206			
75M51247-1	B	TM-163 6406A8	CALMEC	3.00	FLOW REG	6000	SHUTOF,Y-GLO,PNEU ACT,PIL,	68X68	ABC	.00	S1S1131206			
75M51247-1	B	TM-163 64064A	CALMEC	3.00	FLOW REG	6000	SHUTOF,Y-GLO,PNEU ACT,PIL,	68X68	ABC	.00	S1S1131206			
75M51247-2	B	TM-163-6406A5	CALMEC	4.00	FLOW REG	10000	SHUTOF,Y-GLO,PNEU ACT,PIL,	68X68	ABC	.00	S1S1131206			
75M51255-2	B	TM-165	CALMEC	2.50	MANUAL	6000	Y-GLOBE,INLINE,SHUTOFF , ,	68X68	ABC	.00	S1S1131206			
75M51256-1	-	220T1-16LL	J,P&C	2.00	CHECK	3000	POPPET,INLINE,ANY ,DIR OP,	68X68	ABC	.00	S1S1S10200			
75M51257-1	A	230413 MOD HVN60	MAROTTA	.38	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	19X19	ABC	.20 OD	S1S1140200			
75M51257-2	A	230423 MOD HVN4D	MAROTTA	.25	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	19X19	ABC	.14 OD	S1S1140200			
75M51262	A	806162MOD PVM555430-1A	MAROTTA	2.00	SOLENOID	3000	SOL,2W,2P,NC,PNEU PIL,S/P	19X19	ABC	1.80 OD	S1S1130200			
75M51263-1	B	229954-1 MOD RV23SK	MAROTTA	.38	PRES REG	3000	REG,SPR,RLV,SET, , 37/5	19X19	BCE	.00	S1S1140206			
75M51264	D	229944 MOD RV79LK	MAROTTA	.50	PRES REG	6000	REG,DOM,RLV,PRS, ,1000/U	19X19	CDE	.00	S1S1140225			
75M51279-1	B	1-5275(511-8C-8AA)270J	SAGE	.50	RELIEF	3500	DIR,ANGLE, ,2700CP,	19X19	E	.25 OD	S1S1130602			
75M51279-1	B	1-5343(511-8C-8AA)27CC	SAGE	.50	RELIEF	3500	DIR,ANGLE, ,2700CP,	19X19	E	.25 OD	S1S1130602			

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAL	SEAT	OTHER
75M51290-2	A	230514-2 MOD RV23DK	MAROTTA	.38	PRES REG	1000	REG,DOM,RLV,MAN, ,1000/5	19X19	ABC	.00	S1	S1	S10212		
75M51290-3	A	230514-3 MOD RV23DK	MAROTTA	.38	PRES REG	4500	REG,DOM,RLV,MAN, ,4500/50	19X19	ABC	.00	S1	S1	S10212		
75M51291	A	15CFM-210 (2.00)	MISSION	2.00	CHECK	150	SWING ,INLINE,ANY ,DIR OP,	62X62	ABC	.00	S1	S1	S10200		
75M51291	A	2102-232-08	MISSION	2.00	CHECK	150	SWING ,INLINE,ANY ,DIR OP,	62X62	ABC	.00	S1	S1	S10200		
75M51313-1	E	P11-698	J,P&C	.25	CHECK	2000	POPPET,INLINE,ANY ,DIR OP,	18X73	BCE	.00	S1	S1	S10204		
75M51313-2	E	P12-698	J,P&C	.38	CHECK	2000	POPPET,INLINE,ANY ,DIR OP,	18X73	BCE	.00	S1	S1	S10204		
75M51315-1	B	20-7851-1	AUTOCLV	.25	MANUAL	6000	NEEDLE ,OFFSET, , ,P	19X19	ABC	.00	S1	S1	S11253		
75M51315-2	B	20-7893	AUTOCLV	.38	MANUAL	6000	NEEDLE ,OFFSET, , ,P	19X19	ABC	.00	S1	S1	S11253		
75M51315-3	B	20-7852-1	AUTOCLV	.50	MANUAL	6000	NEEDLE ,OFFSET, , ,P	19X19	ABC	.00	S1	S1	S11253		
75M51315-3	B	C-188-B-1 (.50)	CALMEC	.50	MANUAL	6000	NEEDLE ,OFFSET, , ,P	19X19	ABC	.00	S1	S1	S11253		
75M51321-3	B	2-9064-A	SAGE	.25	DIR CONT	6000	CALIBRATN	19X19	BCE	.00	S1	S1	S11253		
75M51321-3	B	2-9064-B	SAGE	.25	DIR CONT	6000	CALIBRATN	19X19	BCE	.00	S1	S1	S11253		
75M51327	A	KT-180-6C-12-763	ROBBINS	.38	MANUAL	6000	GLOBE ,3-PORT,METERING, ,P	19X19	E	.18	OD	S1	S11306	00	
75M51327	A	T-180-6C-787	ROBBINS	.38	MANUAL	6000	GLOBE ,3-PORT,METERING, ,P	19X19	E	.18	OD	S1	S11306	00	
75M51327	A	T-180-768	ROBBINS	.38	MANUAL	6000	GLOBE ,3-PORT,METERING, ,P	19X19	E	.18	OD	S1	S11306	00	
75M51327	A	T180-6C-787	ROBBINS	.38	MANUAL	6000	GLOBE ,3-PORT,METERING, ,P	19X19	E	.18	OD	S1	S11306	00	
75M51327-1		230413 MOD HVN6D	MAROTTA	.00						.00					
75M51328-1	A	SSKG250-4C-768-12	ROBBINS	.25	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	E	.13	OD	S1	S11306	00	
75M51328-1	A	SSKG250-4C-787	ROBBINS	.25	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	E	.13	OD	S1	S11306	00	
75M51328-1	A	SSKG250-4C-787-12	ROBBINS	.25	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	E	.13	OD	S1	S11306	00	
75M51328-2	A	SSKG375A-6C-768-12	ROBBINS	.38	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	E	.31	OD	S1	S11306	00	

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAL	SPRING	OTHER
75M51328-2	A	SSKG375A-6T-768	ROBBINS	.38	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	E	.31 OD	S1S1130600				
75M51328-2	A	SSKG375B-6C-768-12	ROBBINS	.38	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	E	.31 OD	S1S1130600				
75M51328-3	A	SSKG250-4C-768	ROBBINS	.50	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	E	.31 OD	S1S1130600				
75M51328-3	A	SSKG500A-8C-768-12	ROBBINS	.50	MANUAL	3000	GLOBE ,INLINE,METERING, ,P	19X19	E	.31 OD	S1S1130600				
75M51329-1	B	SSKA250-4C-768	ROBBINS	.25	MANUAL	5000	GLOBE ,ANGLE ,METERING, ,P	19X19	QAB	.13 OD	S1S1130200				
75M51329-1	B	SSKA250-4C-787	ROBBINS	.25	MANUAL	5000	GLOBE ,ANGLE ,METERING, ,P	19X19	QAB	.13 OD	S1S1130200				
75M51352-1	B	C-188-B-1 (.75)	CALMEC	.75	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,	19X19	ABC	.75 OD	S1S1131206				
75M51352-2	B	C-188-B-2	CALMEC	.75	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,	68X68	ABC	.75 OD	S1S1131206				
75M51363-1		219694 MOD RV23S_	MAROTTA	.00						.00					
75M51364-1	C	26-1025-50-044	TESCOM	.25	PRES REG	6000	REG,SPR,RLV,MAN, ,1000/0	19X19	ABC	.00	S1S1130600				
75M51364-2	C	26-1022-50-044	TESCOM	.25	PRES REG	6000	REG,SPR,RLV,MAN, ,4500/0	19X19	ABC	.00	S1S1130600				
75M51364-3	C	26-1027-50-044	TESCOM	.25	PRES REG	6000	REG,SPR,RLV,MAN, , 500/0	19X19	ABC	.00	S1S1130600				
75M51364-4	C	26-1054-54-044	TESCOM	.25	PRES REG	6000	REG,SPR,RLV,MAN, , 300/0	19X19	ABC	.00	S1S1130600				
75M51365		30-1111-104-004	TESCOM	.00						.00					
75M51365		30-1201-108-040	TESCOM	.00						.00					
75M51365		30-1201-116-040	TESCOM	.00						.00					
75M51365		30-1201-512-016E	TESCOM	.00						.00					
75M51365		30-1201-916-062B	TESCOM	.00						.00					
75M51365		30-1301-108	TESCOM	.00						.00					
75M51365		30-1301-108-002	TESCOM	.00						.00					
75M51365		30-1301-108-045	TESCOM	.00						.00					

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY **	BONNET **	TRIM **	SEAT **	OTHER **
75M51365		30-1301-108E	TESCOM	.00						.00					
75M51365		30-1301-308	TESCOM	.00						.00					
75M51365-1	A	30-1201-112	TESCOM	1.00	MANUAL	6000	GLOBE ,OFFSET,SHUTOFF , ,P	19X19	ABC	.75	OD	S	1	S	1120602
75M51365-1	A	30-1201-516-016	TESCOM	1.00	MANUAL	6000	GLOBE ,OFFSET,SHUTOFF , ,P	19X19	ABC	.75	OD	S	1	S	1120602
75M51365-2	A	30-1201-116	TESCOM	.75	MANUAL	6000	GLOBE ,OFFSET,SHUTOFF , ,P	19X19	ABC	.61	OD	S	1	S	1120602
75M51365-2	A	30-1201-512-016	TESCOM	.75	MANUAL	6000	GLOBE ,OFFSET,SHUTOFF , ,P	19X19	ABC	.61	OD	S	1	S	1120602
75M51365-2	A	30-1201-512-016E	TESCOM	.75	MANUAL	6000	GLOBE ,OFFSET,SHUTOFF , ,P	19X19	ABC	.61	OD	S	1	S	1120602
75M51365-4		30-1200-512-016E	TESCOM	.00						.00					
75M51383-18	-	26-1063-56-043	TESCOM	.38	PRES REG	6000	REG,SPR,RLV,MAN, ,4000/0	19X19	ABC	.00		S	1	S	1130200
75M51383-2	-	26-1022-50-044	TESCOM	.25	PRES REG	6000	REG,SPR,RLV,MAN, ,4500/0	19X19	ABC	.00		S	1	S	1130200
75M51383-3	-	26-1027-50-044	TESCOM	.25	PRES REG	6000	REG,SPR,RLV,MAN, , 500/0	19X19	ABC	.00		S	1	S	1130200
75M51384-3	-	1.5-K-1194-0	CRANE	1.50	MANUAL	750	BALL ,INLINE,SHUTOFF , ,N	19X19	ABC	.00		S	1	S	1060200
75M51396	-	14-1602 NEW P/N14-5278	AIR-RED	.75	MANUAL	2000	GLOBE ,ANGLE ,SHUTOFF , ,N	11X12	B	.00		B	0	0	0000000
75M51397	-	81928-8AS2	REPUBLC	.50	DIR CONT	2000	SELECT,3W,2P,MAN ACT ,DIR,	13X13	B	.00		C	0	S	1000200
75M51404	-	M2070N	BASTIAN	.25	PRES REG	2000	REG,SPR,RLV,MAN, , 80/0	10X10	B	.00		B	1	0	0000000
75M51488	-	FMC25SS	AUT-PON	.38	FLOW REG	4500	FLO-REST,PNEU ,2W,ADJ	19X19	ABC	.00		S	1	S	1S11712
75M51498-1	-	269-131-1	TESCOM	1.00	PRES REG	3000	REG,SPR,RLV,MAN, , 50/0	19X19	ABC	.00		S	1	S	1120200
75M51582-1	-	634-004	CALMEC	.25	CHECK	6000	POPPET,INLINE,ANY ,DIR OP,	19X19	ABC	.02	OA	S	1	S	3131300
75M51582-3	-	634-008	CALMEC	.50	CHECK	6000	POPPET,INLINE,ANY ,DIR OP,	19X19	ABC	.07	OA	S	1	S	3131300
75M51630-432	-	232783-432 MOD CV33	MAROTTA	.25	CHECK	6000	DISC ,INLINE,ANY ,DIR OP,	27X73	ABC	.00		S	1	S	1000600
75M51630-434	-	232783-434 MOD CV33	MAROTTA	.25	CHECK	6000	DISC ,INLINE,ANY ,DIR OP,	27X73	ABC	.00		S	1	S	1000200

NASA PART NUMBER SORT

NASA PART NO.	REV LTR	VENDOR PART NO.	APPROVED VENDOR	VALVE SIZE	VALVE CLASS	SPEC PRESS	DESCRIPTION/FUNCTION	PORT CONN	FLUID MED	FLOW FACTOR	VALVE MATL BODY	TRIM	SEAT	SOL	OTHR
75M51630-634	-	232783-634 MOD CV33	MAROTTA	.38	CHECK	6000	DISC ,INLINE,ANY ,DIR OP,	27X73	ABC	.00	S1S1000200				
75M51630-834	-	232783-834 MOD CV33	MAROTTA	.50	CHECK	6000	DISC ,INLINE,ANY ,DIR OP,	27X73	ABC	.00	S1S1000200				
75M51665-14	D	1-2122	KAHN	.25	RELIEF	1500	DIR,INLIN, , 930CP,	20X73	ABC	.00	S1S1140200				
75M51665-2	D	1-2076	KAHN	.25	RELIEF	5000	DIR,INLIN, ,3350CP,	20X73	ABC	.00	S1S1140200				
75M51700-3	B	PM22M-6050-316-T-MC243	EFCO	.50	MANUAL	1000	BALL ,INLINE,SHUTOFF , ,P	19X19	ABC	.00	S1S1120214				
75M51700-4	B	PM22M-6075-316-T-MC24C	EFCO	.75	MANUAL	1000	BALL ,INLINE,SHUTOFF , ,P	19X19	ABC	.00	S1S1120214				
75M51700-7	B	PM22M-6150-316-T-MC243	EFCO	1.50	MANUAL	1000	BALL ,INLINE,SHUTOFF , ,P	19X19	ABC	.00	S1S1120214				
75M52156-2		M-12951-C MOD 94W	GROVE	.00						.00					
75M54328-1		SSKG250-4C-787	ROBBINS	.25	MANUAL	6000	GLOBE , , , ,		STK	.00					
75725483-1		99SE	POWELL	.75	CHECK		, , , ,			.00					
76K02821		15C154	FLODYNE	1.50	FLOW REC	3000	FLO-CT,BALL , , ,		X	.00					
76K02822		15C154	FLODYNE	1.50	FLOW REG	3000	FLO-CT,BALL , , ,		X	.00					
79K00028-3-3-1	A	SERIES 1100	TESCOM	.25	MANUAL	6000	GLOBE ,INLINE,SHUTOFF , ,P	19X19	ABC	.13	0D S1S1130612				

DEFINITIONS O. HEADINGS
VENDOR PART NO/VALVE CLASS SORT

VENDOR: The name of the supplies of a specific valve is given in abbreviated form. For example: "ACEVAL" indicates that the valve was supplied by the Ace Valve Company. Vendor abbreviations are listed in Appendix C, with vendor name, mailing address, and phone number where known.

VENDOR PART NO: The supplier's identifying number for a specific valve is given under this heading.

NASA PART NO: NASA's identifying number for a specific valve is listed in this column. This number is identical to the NASA specification under which the valve was supplied.

RATED PRESS (Rated Pressure): The numerical valve listed is the valve's rated operating pressure as specified by the vendor. The unit of measure is pounds per square inch (psi).

FLUID MEDIA: The two-part hyphenated alpha code valve listed under this heading indicates the fluid media service for which the specific valve has been approved, and also the approved source. For example, fluid media code "ABC-S" indicates that the valve has been approved by the vendor for service with the following fluid media: Air (A), gaseous nitrogen (B), and gaseous helium (C). The code letter S indicates that the valve was approved to meet the fluid media requirements of a specific NASA valve specification. A second code letter, V is used to indicate that the approved fluid media is the vendor's normal industrial rating and is not a rating to meet a NASA specification. See Appendix E for the system fluid media designation codes.

DESCRIPTION/FUNCTION: The abbreviated entries under this heading pertain to the physical description and functional characteristics of a specific valve. The abbreviated description is "constructed" in the same order in which the various descriptive categories are listed under their respective class headings. As an example, the manual valve description "GLOBE, OFFSET, SHUTOFF, VAC, P" indicates the valve type, port orientation, functional description, special service description, and provision for panel mounting, which is also the category order for the manual valve description/function designations. The abbreviations are explained in Appendix C.

PORT CONN (Port Connection): The numeric coded entry under this heading describes the type of inlet and outlet connections with which a specific valve is supplied. For example, the entry "19x20" indicates the inlet connection (19) is a screwed, internal tube thread, MC240, and the outlet connection (20) is a screwed, external tube thread, KC105. Port connection designation codes are found in Appendix D.

FACE-TO-FACE: The face-to-face numerical valve is a dimension indicating the distance between the respective faces of the inlet and outlet port connections. The dimension is given in inches, and consists of a whole number and a two-digit decimal fraction.

VALVE MATL (Valve Material): The ten-digit alpha-numeric code entered under this heading identifies the material composition of selected valve components which come into contact with the flow media (wetted parts). The first two digits of the code indicate the body material, and the remaining code, taken in two-digit segments, indicates the materials of the trim, seat, seal, and one other unidentified wetted valve part constructed of material differing from the valve parts previously described. Metal materials are designated in alpha-numeric code while non-metal materials are indicated by a numeric code. For example, the valve material code "A3-S1-14-03-B1" describes a valve with a cast aluminum body (A3), 300-series stainless steel trim (S1), a nylon seat (14), a neophrene seal (03), and another part made of bronze (B1). Appendix F provides the material code designations.

FLOW FACTOR: This category consists of a numerical value and an abbreviated identifier depicting the type of flow factor recorded. Four types of flow factors are indicated, as applicable: CV, flow coefficient; ED, equivalent sharp-edge orifice diameter; OA, orifice area; OD, orifice diameter.

P/N TOT (Part Number Total): The value entered under this heading represents the total quantity of the specified vendor part number valves that is used in the KSC fluid systems included in the valve study. This value is referred to also as the KSC Usage Index.

UCR TOT (Unsatisfactory Condition Report Total): The value listed under this heading indicates the total number of times the vendor valve shown has failed. The failures tabulated reflect only the UCR's investigated during the study.

M/R (Maintainability Rating): The code number listed indicates the degree of difficulty of maintaining the specific valve. Appendix H gives codes for rating maintainability and an explanation of the factors considered in establishing the rating values.

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	VALVE TRIM	SEAT MATL	O-RING MATL	FLOW FACTOR	P/N TOT	M/R UCR* TOT*
								**	**	**	**			* * *
	********** CLASS:CHECK SIZE: 0.25 INCH **********													
APCO	3503C-E4T		1500	ST -V	SWING ,INLINE,HORZ,DIR OP,	09X09	1.67	SUSUSU1200				.00	4	1 2
CALMEC	579-04	75M15296-1	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,		.00					.00	3	0 1
CALMEC	634-004	75M51582-1	6000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	19X19	2.69	S1S3131300				.02 0A	6	0 1
CIRSEAL	H249T-4TT		6000	ST -V	POPPET,INLINE,ANY ,DIR OP,	15X15	2.63	S1S1S10200				.00	1	0 1
CIRSEAL	K249T1-4TT		3000	FGH-V	POPPET,INLINE,ANY ,DIR OP,CRY	15X15	2.63	S1S1S11200				.00	1	0 1
CIRSEAL	249T-4TT	75M25731-1	3000	BCD-S	POPPET,INLINE,ANY ,DIR OP,	15X15	2.63	S1S1S10200				.00	20	0 1
CIRSEAL	249T1-4TT	75M25506-1	3000	BCD-V	POPPET,INLINE,ANY ,DIR OP,	15X15	2.63	S1S1S10200				.00	1	0 1
J,P&C	HP279T1-4TT	75M02675	6000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	15X15	1.93	S1S1S10200				.00	4	0 1
J,P&C	HP279T1-4VN	75M02661	6000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	19X13	2.08	S1S1S10200				.00		0 1
J,P&C	P11-698	75M51313-1	2000	BCE-S	POPPET,INLINE,ANY ,DIR OP,	18X73	.79	S1S1S10200				.00	4	0 1
J,P&C	P279T1-4NN	10425928	3000	ABX-S	POPPET,INLINE,ANY ,DIR OP,	18X18	2.63	S1S1S10200				.00	6	0 1
J,P&C	279T1-4NN	75M08325-1	3000	B -S	POPPET,INLINE,ANY ,DIR OP,	18X18	1.98	S1S1S10200				.00	10	0 1
J,P&C	279T1-4NV-1	75M08326-1	3000	B -S	POPPET,INLINE,ANY ,DIR OP,	18X19	2.08	S1S1S10200				.00	1	0 1
J,P&C	299T1-4NN		3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	18X18	2.63	S1S1S10200				.00	56	1 1
J,P&C	299T1-4NV	75M50149-1	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	18X19	2.68	S1S1S10200				.00	4	0 1
	********** CLASS:CHECK SIZE: 0.25 INCH **********													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	SEAL	CRACK	FLOW FACTOR	P/N TOT	M/R UCR* TOT*	*
	SIZE: 0.25INCH (CONTD)															
MAROTTA	232783-424 MOD CV33	11M00799-1	200	B -S	DISC ,INLINE,ANY ,DIR OP,	27X73	.59	S1S1000200				.2	CV	1	0	1
MAROTTA	232783-432 MOD CV33	75M51630-432	6000	ABC-S	DISC ,INLINE,ANY ,DIR OP,	27X73	.63	S1S1000600				.00		16	0	1
MAROTTA	232783-434 MOD CV33	75M51630-434	6000	ABC-S	DISC ,INLINE,ANY ,DIR OP,	27X73	.59	S1S1000200				.2	CV	24	0	1
MAROTTA	232783-824 MOD CV33	11M00799-5	200	B -S	DISC ,INLINE,ANY ,DIR OP,	27X73	.80	S1S1000200				.6	CV	1	0	1
MISSION	1-3256	75MC5871-PCV-1		BC -S	, , , ,		.00					.00		*	*	
MISSION	1-3530	75M05871-PCV-13	6000	D -S	POPPET,INLINE,ANY ,DIR OP,	13X46	.00	S1S1S11312				.13	OD	*	*	1
MISSION	54-4-53		6000	B -V	POPPET,INLINE,ANY ,DIR OP,	13X46	3.38	S1S1131200				.2	CV	1	1	1
REPUBLC	488-4SST-2	11M00817-1	3000	BX -S	POPPET,INLINE,ANY ,DIR OP,	15X15	2.63	S1S1121200				7.5	CV	1	0	1
SAGE	1-9133 (911A)	75M50149-1	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	19X19	2.00	S1S11212S1				.00		13	0	1
SECURTY	CO-2005	75M09618-PCV-1	6000	D -S	POPPET,INLINE,ANY ,DIR OP,	13X46	.00	S1S1S11200				.09	OD	*	*	1
VACCO	99517 (0.25)	75MC5752-HCV-11	1500	BC -S	POPPET,INLINE,ANY ,DIR OP,	10X10	.00	S1S1S11200				.00		20	0	2
WALWORH	420WS		400	R -V	SWING ,INLINE,HORZ,DIR OP,	80X80	2.44	B3B4B30000				4.0	CV	3	0	3
	CLASS:CHECK SIZE: 0.38 INCH															
CIRSEAL	P6-698-3	75M00177	2000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	27X73	.66	A100031300				.00		1	1	1
CIRSEAL	239T-6TT	10426693	3000	YLS-S	POPPET,INLINE,ANY ,DIR OP,	15X15	2.64	S1S1S10200				.00		1	1	1
	CLASS:CHECK SIZE: 0.38 INCH															

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	VALVE MATL SEAT	VALVE MATL OTHER	FLOW FACTOR	P/N TOT	M/R UCR* TOT*
	SIZE: 0.38INCH (CONTD)												
FUTR-CR	601-6A-C-40-8		10000	STE-V	POPPET,INLINE,ANY ,DIR OP,	13X13	.00	S1S112	1200		.25 00	2	0 1
J,P&C	HP279T1-6TT	75M02676	6000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	15X15	2.64	S1S1S	10200		.00	11	0 1
J,P&C	HP299T1-6TT	10428549	6000	BC -S	POPPET,INLINE,ANY ,DIR OP,	27X27	2.64	S1S1S	10200		.00	4	0 1
J,P&C	HP299T1-6TT		6000	BC -S	POPPET,INLINE,ANY ,DIR OP,	15X15	2.64	S1S1S	10200		.00	4	0 1
J,P&C	H299T1-6TT	10430233-2	6000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	15X15	2.64	S1S1S	10200		.00	1	0 1
J,P&C	K220T1-6BB-2	75M17763-HCV-11		BCH-S	POPPET,INLINE,ANY ,DIR OP,CRY		.00				.00	*	*
J,P&C	P-6-698-3	75M00177	2000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	27X73	.66	A1A1	031300		.00	7	1 1
J,P&C	P12-698	75M51313-2	2000	BCE-S	POPPET,INLINE,ANY ,DIR OP,	18X73	.74	S1S1S	10200		.00	16	0 1
J,P&C	220T-6BB	10430135	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	13X13	2.44	S1S1S	11200		.00	2	0 1
J,P&C	220T-6TT	10430234-2	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	15X15	2.64	S1S1S	11200		.00	4	0 1
J,P&C	239T-6TT	10426693	3000	YLS-S	POPPET,INLINE,ANY ,DIR OP,	15X15	2.64	S1S1S	10200		.00	24	0 1
J,P&C	279T-6TT	75M00452	3000	X -S	POPPET,INLINE,ANY ,DIR OP,	18X18	2.64	S1S1S	10200		.00	8	0 1
J,P&C	299T1-6NN	10430233-2	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	18X18	2.64	S1S1S	10200		.00	54	0 1
J,P&C	299T1-6NV		3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	18X19	2.64	S1S1S	10200		.00	8	0 1
J,P&C	299T1-6ZV	75M50149-2	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	20X19	2.54	S1S1S	10200		.00	1	0 1
J,P&C	869T-6VN	75M11922	200	AY -S	POPPET,INLINE,ANY ,DIR OP,	19X18	2.53	S1S1S	10200		.00	1	0 1

CLASS:CHECK
SIZE: 0.38 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	VALVE TRIM	VALVE SEAT	VALVE ACTH	MATL R	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.38INCH (CONTD)														
MAROTTA	232783-634 MOD CV33	75M51630-634	6000	ABC-S	DISC ,INLINE,ANY ,DIR OP,	27X73	.64	S1S1000200					.2 CV	16	1 1
MISSION	2003-211-06		3000	ST -V	POPPET,INLINE,ANY ,DIR OP,	27X27	3.31	S1S1126200					.00	8	0 1
MISSION	2003-231-06		3000	ST -V	POPPET,INLINE,ANY ,DIR OP,	27X27	3.31	S1S1121200					.00	2	0 1
PARKER	F509	75M15329-FVB-1	60	YLM-S	VAC BR,ANGLE ,HORZ,DIR OP,	09X73	.00	S1A0001700					.00	7	4 2
REPUBLC	420-6SS2-6		10000	TXP-V	POPPET,INLINE,ANY ,DIR OP,	25X25	.00	S1S1S10200					.00	8	4 1
REPUBLC	488-6SST-2	11MC0817-3	3000	BX -S	POPPET,INLINE,ANY ,DIR OP,	15X15	2.97	S1S1121200					1.5 CV	2	0 1
VACCO	CVT-3P-462P	75M05752-HCV-13	750	BC -S	POPPET,INLINE,ANY ,DIR OP,	10X10	2.75	S1S1120000					.00	1	3 2
	CLASS:CHECK SIZE: 0.50 INCH														
CALMEC	579-08	75M15296-3	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,		.00						.00	2	0 1
CALMEC	634-008	75M51582-3	6000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	19X19	3.36	S1S3131300					.07 OA	13	1 1
CIRSEAL	299T1-8NV	75M50149-3	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	18X19	3.12	S1S1S10200					.00	1	0 1
CIRSEAL	299T1-8TT	75M50149-3	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	15X15	3.12	S1S1S10200					.00	1	0 1
CRANE	36 (.50)		400	R -V	SWING ,INLINE,HORZ,DIR OP,	10X10	2.50	B3B3B3B300					.00	1	0 2
FUTR-CR	601-8A-C-40-6		9000	STE-V	POPPET,INLINE,ANY ,DIR OP,	13X13	.00	S1S1121200					.38 OD	1	0 1
J,P&C	H299T1-8NN	10430233-3	6000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	18X18	3.12	S1S1S10200					.00	11	0 1
	CLASS:CHECK SIZE: 0.50 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT MAT'L	O RING	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.50INCH (CONTD)													
J,P&C	H299T1-8TT	10430233-2	6000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	15X15	3.12	S1S1S10200				.00	1	0 1
J,P&C	H299T1-8TT	10430233-3	6000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	15X15	3.12	S1S1S10200				.00	2	0 1
J,P&C	K220T-04PP-2	75M05752-HCV-11	3000	BC -S	POPPET,INLINE,ANY ,DIR OP,CRY	10X10	2.94	S1S1S11200				.00	2	0 2
J,P&C	K220T-4PP-2		3000	FGH-V	POPPET,INLINE,ANY ,DIR OP,CRY	10X10	2.94	S1S1S11200				.00	6	0 2
J,P&C	K220T-8TT-1.5	75M06057-3	3000	BCG-S	POPPET,INLINE,ANY ,DIR OP,CRY	15X15	3.12	S1S1S11200				.00	1	0 1
J,P&C	220T-8BB-5	75M07278-3	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	13X13	3.06	S1S1S11200				.00	2	0 1
J,P&C	230T-8TT	10430234-3	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	15X15	3.12	S1S1S10600				.00	2	0 1
J,P&C	249T-4PP	75M15214-PCV-5		B -S	POPPET,INLINE,ANY ,DIR OP,		.00					.00	*	*
J,P&C	277T1-8NN	75M05365-4	3000	X -S	POPPET,INLINE,ANY ,DIR OP,	18X18	3.12	S1S1S10200				.00	38	1 1
J,P&C	279T1-8NN	75M08325-3	3000	B -S	POPPET,INLINE,ANY ,DIR OP,	18X18	3.12	S1S1S10200				.00	24	2 1
J,P&C	299T1-8NN	10430233-3	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	18X18	3.12	S1S1S10200				.00	2	0 1
J,P&C	299T1-8NV	75M50149-3	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	18X19	3.12	S1S1S10200				.00	1	0 1
J,P&C	299T1-8TT	10430233-3	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	15X15	3.12	S1S1S10200				.00	1	0 1
J,P&C	299T1-8ZZ	75M08325-3	3000	B -S	POPPET,INLINE,ANY ,DIR OP,	20X20	3.12	S1S1S10200				.00	2	0 1
J,P&C	806097-12		3000		POPPET,INLINE,ANY ,DIR OP,		.00					.00	1	0 1
LADISH	5260 (.50)		200	R -V	SWING ,INLINE,HORZ,DIR OP,	10X10	2.88	S1S1S10000				.00	1	1 2

CLASS:CHECK
SIZE: 0.50 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	VALVE TRIM	VALVE SEAT	MATL ACTL	MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR* TOT*
	SIZE: 0.50INCH (CONTD)														
MAROTTA	204002-19 MOD CVM8	75M06518	3000	FG -V	POPPET,INLINE,ANY ,DIR OP,CRY	13X13	2.25	S1S113	1200				2.1 CV	1	0 1
MAROTTA	232783-834 MOD CV33	11M00799-5	3000	B -S	DISC ,INLINE,ANY ,DIR OP,	27X73	.80	S1S1000	200				.6 CV	1	0 1
MAROTTA	232783-834 MOD CV33	75M51630-834	6000	ABC-S,	DISC ,INLINE,ANY ,DIR OP,	27X73	.80	S1S1000	200				.6 CV	1	1 1
MAROTTA	800262-19 MOD CVM508		6000	FC -V	POPPET,INLINE,ANY ,DIR OP,CRY	27X27	2.25	S1S113	1200				.34 EO	4	0 1
MISSION	1-3528	75M09618-PCV-6	25	B -S	POPPET,INLINE,ANY ,DIR OP,	27X27	.00	S1S1S11	200				.25 OD	*	* 1
MISSION	1-3529	75MC5871-PCV-15		BC -S	, , , ,		.00						.00	*	*
MISSION	11331				, , , ,		.00						.00	1	2
MISSION	2002-231-08		3000	ST -V	POPPET,INLINE,ANY ,DIR OP,	13X13	3.69	S1S112	1200				.00	2	0 1
MISSION	2102-232-08	75M51291	6000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	13X13	3.69	S1S113	1200				.00	2	0 1
REPUBLC	488-8SST-2	11M00817-5	3000	BX -S	POPPET,INLINE,ANY ,DIR OP,	15X15	3.41	S1S112	1200				4.0 CV	6	0 1
REPUBLC	488-8SST-40	11M00817-15	3000	BX -S	POPPET,INLINE,ANY ,DIR OP,	15X15	3.41	S1S112	1200				4.0 CV	1	0 1
SECURTY	CD-2005	75MC9618-PCV-5	6000	BC -S	,INLINE,ANY ,DIR OP,	13X13	.00	S1S100	1200				.38 OD	*	* 1
VACCO	99517 (0.50)	75M05752-HCV-12	1500	BC -S	POPPET,INLINE,ANY ,DIR OP,	10X10	.00	S1S1S11	200				.00	1	0 2
	CLASS:CHECK SIZE: 0.56 INCH														
FL-MECH	53.562	75M25558-1	15000	FG -V	POPPET,INLINE,ANY ,DIR OP,CRY	46X46	4.50	S1S120	2000				.00	6	0
	CLASS:CHECK SIZE: 0.56 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.56INCH (CONTD)													
HI PRES	10-41HF9 304GG				, , , ,		.00					.00	2	1
MISSION	1-3527	75MC5871-PCV-2		BC -S	, , , ,		.00					.00	*	*
	CLASS:CHECK SIZE: 0.63 INCH													
REPUBLC	488-10YT-E5		3000	ST -V	POPPET,INLINE,ANY ,DIR OP,	15X15	3.97	S1S1121200				6.0 CV	1	0 1
	CLASS:CHECK SIZE: 0.75 INCH													
CIRSEAL	859T1-2BB3	75M17763-HCV-3		B -S	, , , ,		.00					.00	*	*
FL-CONT	4-K14-6-SV	11M00802	5000	X -S	POPPET,ANGLE ,ANY ,PIL OP,	10X13	3.93	C0C0C00600				.00	1	0 2
J,P&C	K22CT1-12BB-2	75M17763-HCV-5		FH -S	POPPET,INLINE,ANY ,DIR OP,CRY		.00					.00	*	*
J,P&C	259T-12TT	10436299	3000	X -S	POPPET,INLINE,ANY ,DIR OP,	15X15	4.23	S1S1S10200				.00	5	0 1
J,P&C	277T1-12NN	75MC5365-6	3L0C	X -S	POPPET,INLINE,ANY ,DIR OP,	18X18	4.23	S1S1S10200				.00	6	0 1
J,P&C	279T1-12NN	75M08325-5	3000	B -S	POPPET,INLINE,ANY ,DIR OP,	18X18	4.23	S1S1S10200				.00	7	0 1
J,P&C	299T1-12NN	10430233-4	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	18X18	4.23	S1S1S10200				.00	5	0 1
J,P&C	299T1-12NV	75M50149-4	3CCC	ABC-S	POPPET,INLINE,ANY ,DIR OP,	18X19	4.23	S1S1S10200				.00	4	0 1
	CLASS:CHECK SIZE: 0.75 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	BONNET	TRIM	SEAT	SEAL	OTHER	FLOW FACTOR	P/N TOT	M/R UCR* TOT*
	SIZE: 0.75INCH (CONTD)															
MAROTTA	204022-11	11M00822	3000	X -S	POPPET,INLINE,ANY ,DIR OP,CRY	27X27	2.78	S1S1131200						.74 EC	7	0 1
MISSION	1-3523A MOD 54-12GR	75M05871-PCV-3		BC -S	, , , ,		.00							.00	*	*
MISSION	1-3524	75M05871-PCV-11		D -S	, , , ,		.00							.00	*	*
POWELL	3061A-FE (.75)	75M25484-1	300	R -V	SWING ,INLINE,HORZ,DIR OP,	62X62	7.00	C1C1C10000						.00	2	0 1
POWELL	99SE	75725483-1	400	R -V	LIFT ,INLINE,HORZ,DIR OP,	10X10	3.31	63B7B70000						.00	2	0 2
REPUBLC	A488-12SST	75M05432-FCV-6	3000	Y -S	POPPET,INLINE,ANY ,DIR OP,	15X15	4.44	S1S1121200						7.5 CV	2	0 1
REPUBLC	483-3/4-DI-2		3000	RYW-V	POPPET,INLINE,ANY ,DIR OP,	10X10	3.38	A1S1020200						7.5 CV	1	1 2
REPUBLC	497-12Y-2	75M06604-1	3000	X -S	POPPET,INLINE,ANY ,DIR OP,	15X13	4.38	S1S1020200						7.5 CV	2	0 1
SAGE	1-9475 (9518)		3500	ABD-V	POPPET,INLINE,ANY ,DIR OP,	27X27	3.31	S1S11312S1						.00	2	0 1
SECURTY	A1127-2	75M51046		ABC-S	, , , ,		.00							.00	69	0
VACCO	CVL-6P-X464	75M25442-5	6000	BC -V	PISTON,INLINE,ANY ,DIR OP,	68X68	8.50	S1S1130612						4.5 CV	13	0 1
VACCO	CVL-6P-X464	10428538	6000	BC -V	PISTON,INLINE,ANY ,DIR OP,	68X68	8.50	S1S1130612						4.5 CV	13	0 1
	CLASS:CHECK SIZE: 1.00 INCH															
AUTOCLV	CKOX-16008		15000	FGH-V	POPPET,INLINE,ANY , ,CRY	50X50	6.40	S1S1S31200						.00	1	0 1
CRANE	18826		150	R -V	SWING ,INLINE,HORZ,DIR OP,	10X10	4.25	S1S1S1S1GU						.00	5	0 2
	CLASS:CHECK SIZE: 1.00 INCH															

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL: BODY	TRIM	SEAT MATL	FLOW FACTOR	P/N TOT	M/R UCR* TOT*
	SIZE: 1.00INCH (CONTD)												
J,P&C	H299T1-16TT	10430233-5	6000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	15X15	4.69	S1S1S10200			.00	7	0 1
J,P&C	K220T-8PP-2	75M05752-HCV-9	3000	BC -S	POPPET,INLINE,ANY ,DIR OP,CRY	10X10	4.00	S1S1S11200			.00	7	2 2
J,P&C	K220T-8PP-2	75M14524-HCV-9	3000	H -S	POPPET,INLINE,ANY ,DIR OP,CRY	10X10	4.00	S1S1S11200			.00	7	2 2
J,P&C	K220T1-16MM-K	75M17763-HCV-13		GBC-S	POPPET,INLINE,ANY ,DIR OP,CRY		.00				.00	*	*
J,P&C	K220T1-8PP-K	75M17763-HCV-12		GBC-S	POPPET,INLINE,ANY ,DIR OP,CRY		.00				.00	*	*
J,P&C	279T-16TT	75M00189	3000	ABX-S	POPPET,INLINE,ANY ,DIR OP,	15X15	4.69	S1S1S10200			.00	18	0 1
J,P&C	299T1-16NN	10430233-5	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	18X18	4.69	S1S1S10200			.00	10	0 1
MISSION	54-24-GR (1.00)		6000	B -V	POPPET,INLINE,ANY ,DIR OP,	68X68	10.75	S1S1131300			22.4 CV	1	1 1
PACIFIC	31581 (1.00)	10428500	1500	R -V	LIFT ,INLINE,HORZ,DIR OP,	10X10	5.50	C1S1S11900			.00	1	1 2
POWELL	A5747-2 (1.00)		300		, , , ,		.00				.00	2	0
POWELL	A5748 (1.00)		300		, , , ,		.00				.00	1	0
POWELL	70-1367FF	75M25536-1	3600	F -V	LIFT ,ANGLE ,ANY ,DIR OP,	63X63	5.00	S1S113B000			.00	4	0 1
POWELL	70-578		200	F -V	SWING ,INLINE,HORZ,DIR OP,CRY	80X80	3.25	B2B2B21300			.00	2	0 3
REPUBLC	A488-16SST-5	75M05957-FRV-3	3000	Y -S	POPPET,INLINE,ANY ,DIR OP,	27X27	4.94	S1S1121200			13.0 CV	1	0 1
REPUBLC	412-103-6	11M00798	3000	X -S	POPPET,INLINE,ANY ,PIL OP,	10X10	7.66	A1A1A10200			.00	7	0 2
REPUBLC	446-16Y-30	75MC6605-1	5000	X -S	POPPET,INLINE,ANY ,DIR OP,	19X18	4.16	S1S1S11200			.00	2	0 1

CLASS:CHECK
SIZE: 1.00 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	MATL TRIM	SEAT	MATL CONT	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.00INCH (CONTD)													
REPUBLC	488-16SST-10	11M00817-7	3000	BX -S	POPPET,INLINE,ANY ,DIR OP,	15X15	4.94	S1S1121200				13.0 CV	1	0 1
REPUBLC	488-16SST-2	11M00817-9	3000	BX -S	POPPET,INLINE,ANY ,DIR OP,	27X27	4.94	S1S1020206				13.0 CV	5	0 1
REPUBLC	488-16SS1-5	75M15329-FCV-4	3000	YLM-S	POPPET,INLINE,ANY ,DIR OP,	27X27	4.94	S1S1020206				13.0 CV	5	0 1
STRATFL	H5-300		200	N -V	POPPET,INLINE,ANY ,DIR OP,VAC	10X10	3.63	B1B1070031				.00	4	0 2
VACCO	CVL-6P-X465	75M25442-2	6000	BC -V	PISTON,INLINE,ANY ,DIR OP,	68X68	8.50	S1S1130612				3.0 CV	2	0 1
VACCO	CVL-6P-X465	10429546	6000	3C -V	PISTON,INLINE,ANY ,DIR OP,	68X68	8.50	S1S1130612				3.0 CV	2	0 1
VACCO	99517 (1.00)	75M05752-HCV-9	1500	BC -S	POPPET,INLINE,ANY ,DIR OP,	10X10	.00	S1S1S11200				.00	20	3 2
	CLASS:CHECK SIZE: 1.25 INCH													
CRANE	1021 (1.25)				, , , ,		.00					.00	1	0
J,P&C	29911-20NV	75M50149-6	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	18X19	5.29	S1S1S10200				.00	4	0 1
MISSION	2001-231-20		3000	ST -V	POPPET,INLINE,ANY ,DIR OP,	10X10	8.47	S1S1121200				.00	5	1 2
MISSION	54-24-GR (1.25)		6000	B -V	POPPET,INLINE,ANY ,DIR OP,	68X68	10.75	S1S1131300				22.0 CV	1	1 1
POWELL	A5748 (1.25)		300		, , , ,		.00					.00	1	0
	CLASS:CHECK SIZE: 1.50 INCH													
ANNIN	MOD 6590(1.5)XXSGR	75M05871-PCV-4	6000	3C -S	LIFT ,INLINE,HORZ, ,	68X68	.00					.00	1	0 1
	CLASS:CHECK SIZE: 1.50 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL SHAFT	VALVE MATL OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.50INCH (CONTD)														
CRANE	1021 (1.50)				, , , ,		.00						.00	1	0
FLOMATC	DE-101	75M05867-FCV-5	200	Y -S	LIFT ,OFFSET,HORZ,DIR OP,	62X62	11.88	S1S1131200					.00	1	0 1
J,P&C	299T-24TT	75M11879	3000	X -S	POPPET,INLINE,ANY ,DIR OP,	15X15	6.20	S1S1S10200					.00	1	0 1
REPUBLC	458-32SS	75M09007-1	5000	X -S	POPPET,INLINE,ANY ,DIR OP,	66X68	10.75	S1S2S11202					.00	10	3 1
REPUBLC	493-24SST-2	11M00946-3	3000	BX -S	POPPET,INLINE,ANY ,DIR OP,	13X13	6.25	S1S1121200					30.0 CV	7	0 1
REPUBLC	493-24SST-40	11M00846-7	3000	BX -S	POPPET,INLINE,ANY ,DIR OP,	13X13	6.25	S1S1121200					30.0 CV	1	0 1
VACCO	LCV-6P-X467	75M05871-PCV-4	6000	BC -S	LIFT ,INLINE,HORZ,DIR OP,	68X68	.00	S1S1131200					13.0 CV	1	1 1
	CLASS:CHECK SIZE: 2.00 INCH														
ANNIN	MOD 6590(2)XXSGR	75M09220-PCV-5	6000	D -S	LIFT ,INLINE,HORZ, ,	68X68	.00						.00	1	0 1
ANNIN	MOD 6590(2)XXSGR	75M09618-PCV-3	6000	D -S	LIFT ,INLINE,HORZ, ,	68X68	.00						.00	1	1 1
ANNIN	MOD 6590(2)XXSGR	75M05871-PCV-10	6000	BC -S	LIFT ,INLINE,HORZ, ,	68X68	.00						.00	1	1 1
CRANE	34		125	R -V	SWING ,INLINE,HORZ,DIR OP,	10X10	5.12	B2B2B2B200					.00	2	0 2
CRANE	36 (4.00)		400	R -V	SWING ,INLINE,HORZ,DIR OP,	10X10	6.00	B3B3B3B3L0					.00	1	0 2
J,P&C	K22CT-16PP-I		3000	FGH-V	POPPET,INLINE,ANY ,DIR OP,CRY	10X10	6.13	S1S1S112L0					.00	4	2 2
J,P&C	220T1-16LL	75M51256-1	3000	ABC-S	POPPET,INLINE,ANY ,DIR OP,	68X68	10.73	S1S1S10200					.00	3	0 1
	CLASS:CHECK SIZE: 2.00 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	OTHER	FLOW FACTOR	P/N TOT	M/R UCR* TOT*
	SIZE: 2.00INCH (CONTD)													
MISSION	15CFM-210 (2.00)	75M51291	150	ABC-S	SWING ,INLINE,ANY ,DIR OP,	62X62	2.00	S1S1S16200				.00	7	0 1
PACIFIC	AL1100-12K-WE (2.00)	75M05752-HCV-2	150	FGH-S	SWING ,INLINE,HORZ,DIR OP,CRY	90X90	.00	A0A0A00000				.00	20	3 3
PACIFIC	S-1130-12ASA	75M17761-LCV-8		FG -S	, , , ,		.00					.00	*	*
PACIFIC	S-1130-12KASA (2.00)	75M17761-LCV-3		FG -S	, , , ,		.00					.00	*	*
PACIFIC	2AL1130-12TASA	75M05869-LCV-5		FG -S	, , , ,		.00					.00	*	*
STOKES	D-310-561-1B		VAC	A -V	SWING ,INLINE, ,DIR OP,VAC		.00	S1S1170000				.00	2	0
STOKES	D-310-561-1B-SS		VAC	A -V	SWING ,INLINE, ,DIR OP,VAC		.00	S1S1170000				.00	2	0
VACCO	CVL-02P-F468	10428583	150	B -V	PISTON,INLINE,ANY ,DIR OP,	62X62	11.50	S1S1121214				50.0 CV	1	0 1
VACCO	CVL-02P-F468	75M25442-1	150	B -V	PISTON,INLINE,ANY ,DIR OP,	62X62	11.50	S1S1121214				50.0 CV	1	0 1
	CLASS:CHECK SIZE: 2.50 INCH													
ANNIN	MOD 6590(2)XXSGR-2.5	75M05871-PCV-5	6000		LIFT ,INLINE,HORZ, ,	68X68	.00					.00	1	1 1
VACCO	CVL-6P-X469	10428537	6000	BC -V	PISTON,INLINE,ANY ,DIR OP,	68X68	12.50	S1S1130612				20.0 CV	8	0 1
VACCO	CVL-6P-X469	75M25442-4	6000	BC -V	PISTON,INLINE,ANY ,DIR OP,	68X68	12.50	S1S1130612				20.0 CV	8	0 1
VACCO	6590	75MC5871-PCN-5	6000	BC -V	LIFT ,INLINE,HORZ,DIR OP,	68X68	.00	S1S1131200				22.0 CV	1	0 1
	CLASS:CHECK SIZE: 3.00 INCH													
COOPER	23-111-2 MODIFIED	75M15329-FCV-5	200	YLM-S	SWING ,INLINE,HORZ,DIR OP,	62X62	9.50	S1B1S10000				.00	21	0
	CLASS:CHECK SIZE: 3.00 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL: BODY	TRIM	SEAL MAT	OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 3.00INCH (CONTD)													
CRANE	PB117947	75M17763-HCV-6		FH -S	, , , ,		.00					.00	*	*
PACIFIC	AL1100-12K-WE (3.00)	75MC5752-HCV-4	150	FGH-S	SWING ,INLINE,HORZ,DIR OP,CRY	90X90	.00	A	U	A	U00000	.00	2	1 3
PACIFIC	G1100-10TASA	75MC5871-PCV-14		D -S	, , , ,		.00					.00	*	*
PACIFIC	S-1130-12KASA (3.00)	75M17761-LCV-9		FG -S	, , , ,		.00					.00	*	*
POWELL	70-597		225	F -V	SWING ,INLINE,HORZ,DIR OP,CRY	80X80	9.38	B	2	B	2B21300	.00	1	0 1
SEALOL	02905	75M17763-HCV-6		FH -S	, , , ,		.00					.00	2	0
V&P	S-1226	75MC5867-FCV-4	200	Y -S	POPPET,INLINE,ANY ,DIR OP,	61X61	6.50	S	1	B	3S10000	.00	2	1 1
V&P	603	75M15329-FCV-3	150	YLM-S	POPPET,INLINE,ANY ,DIR OP,	61X61	6.00	S	1	B	3B12C0	.00	2	1 1
	CLASS:CHECK SIZE: 4.00 INCH													
CRANE	S/N 53798		2000		SWING , , , ,	61X61	.00					.00	2	0 1
CRANE	373		200	R -V	SWING ,INLINE,HORZ,DIR OP,	61X61	11.50	F	U	B	1B1B100	.00	1	0 1
CRANE	4033		225	R -V	SWING ,INLINE,HORZ,DIR OP,	61X61	11.25	B	3	B	3B300	.00	2	0 1
PACIFIC	G1130-10TASA	75M17761-LCV-4		FG -S	, , , ,		.00					.00	*	*
PACIFIC	H#0033L4AL113012TASA	75MC5869-LCV-2		FG -S	, , , ,		.00					.00	*	*
PACIFIC	S-1100-12KASA	75M17761-LCV-1		FG -S	, , , ,		.00					.00	*	*
	CLASS:CHECK SIZE: 4.00 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL ACTR	VALVE MATL OTH	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 4.00INCH (CONTD)														
PACIFIC	4AL1100-12ASA	75M05869-LCV-4		FG -S	, , , ,		.00						.00	*	*
POWELL	2433SS (4.00)	75M05867-FCV-3	300	Y -S	SWING ,INLINE,HORZ,DIR OP,	61X61	9.50	S1S1S11202					.00	7	1 1
	CLASS:DIR CONT SIZE: 0.25 INCH														
AIRMATC	LPV-3-250TO		250	SPK-V	SELECT,3W,2P,FL. ACT ,PIL,	10X10	2.75	A0B0K10200					.00	1	0 2
AUTOCLV	30-2215-2	75M10212	6000	ABC-S	SELECT,4W,3P,MAN ACT ,DIR,	19X19	1.00	S1S1S11200					.16 OD	9	0 1
BENTON	B-4100	10414084			SELECT,3W,2P,MAN ACT ,DIR,	27X27	1.76	0000001200					.00	20	1 1
CIRSEAL	P1-418T	75M25514-1	250	ABC-V	SELECT,4W,2P,MAN ACT ,DIR,	10X10	1.75	S1S1020200					.00	4	0 2
CIRSEAL	P11-425		10000	BCE-V	CALIBRATN	13X13	1.75	S1S1S10300					.00	1	0 1
CLARY	524255	10434448	3000	ABC-S	SHUTTLE	19X19	1.50	A1S0A10200					.00	30	0 1
DAHL	M2T-P4-B1		750	ABC-V	SELECT,4W,3P,MAN ACT ,DIR,VAC	10X10	4.53	S1S1S11200					.4 CV	1	0 2
DENISON	D1004-35-203-33-02-1		5000	X -V	SELECT,4W,3P,MOTR ACT,POS,	71X71	9.75	S0S0S00800					.00	1	0
FUTR-CR	90625-1	75M07278-1	10000	ABC-S	CALIBRATN	19X19	2.16	S1S1121200					.00	29	1 1
FUTR-CR	90625-3 (.25)	75M07278-3	10000	ABC-S	CALIBRATN	19X19	2.16	S1S1121200					.00	44	0 1
FUTR-CR	90630-HP-3-LOX	75M09618-PCVA-1	6000	BCD-S	CALIBRATN	46X46	.00	S1S1001200					.00	1	0 1
FUTR-CR	90630-HP-3-LOX	75M05871-PCVA-1	6000	ABC-V	CALIBRATN	46X46	.00	S1S1001200					.00	1	0 1
	CLASS:DIR CONT SIZE: 0.25 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	VALVE TRIM	VALVE SEAT	VALVE ACTR	MATL OPT	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.25INCH (CONTD)														
FUTR-CR	90633-20-NPT-LOX	75M25790-NCAV-18	400	ABC-S	CALIBRATN		.00						.00	6	0 2
J,P&C	Z929T2PPP	75M17763-HGLV-28		CD -S			.00						.00	*	*
MAROTTA	219293-03 MOD LV74M	75M09938-1	3000	YPX-V	SELECT,3W,2P,MAN ACT ,DIR,	71X13	1.75	A1S1140212					.12	EO 4	1 1
MAROTTA	304-A004 MOD LV74M	75M09938-5	3000	BX -S	SELECT,3W,2P,MAN ACT ,DIR,	71X13	1.75	A1S1140212					.12	EO 12	0 1
MAROTTA	304-A005 MOD LV74M	75M09938-3	3000	BX -S	SELECT,3W,2P,MAN ACT ,DIR,	71X13	1.75	A1S1140212					.12	EO 2	0 1
MAROTTA	304-A006 MOD LV74M	75M09938-4	3000	BX -S	SELECT,3W,2P,MAN ACT ,DIR,	71X13	1.75	A1S1140212					.12	EO 11	0 1
MAROTTA	304-A012 MOD LV74M	75M09938-9	3000	BX -S	SELECT,3W,2P,MAN ACT ,DIR,	71X13	1.75	A1S1140212					.12	EO 22	2 1
MAROTTA	304A008 MOD LV74M	75M09938-2	3000	BX -S	SELECT, 2P,MAN ACT ,DIR,	13X13	1.05	A1S1000214					.12	OD 2	0 1
MAROTTA	304A011 MOD LV74M	75M09938-8	3000	BX -S	SELECT, 2P,MAN ACT ,DIR,	13X13	1.05	A1S1000214					.12	OD 10	2 1
REPUBLC	8921-02		3000	AT -V	SELECT,3W,2P,MAN ACT ,DIR,	10X10	.00	A1A1A10200					.00	2	2 2
SAGE	1-9192		3000	ABC-V	CALIBRATN	19X19	1.50	S1S1131206					.00	1	1 1
SAGE	2-9064-A	75M51321-3	6000	BCE-S	CALIBRATN	19X19	1.90	S1S11312S3					.00	8	2 1
SAGE	2-9064-B	75M51321-3	6000	BCE-S	CALIBRATN	13X13	1.90	S1S11312S3					.00	7	0 1
	CLASS:DIR CONT SIZE: 0.38 INCH														
FUTR-CR	10432	75M07278	300	BCE-S	SELECT,3W,3P,MAN ACT ,DIR,	19X19	3.12	S1S1121200					.00	2	0 1
	CLASS:DIR CONT SIZE: 0.38 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	INTERNAL MATL	SEAL MATL	OTHER MATL	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.38INCH (CONTD)													
FUTR-CR	90625-3 (.38)	75M07278-3	10000	ABC-S	CALIBRATN	19X19	2.16	S1S1121200				.00	1	3 1
REPUBLC	8142B-6AS2		4000	AS -V	SELECT,4W,3P,MAN ACT ,DIR,	13X13	3.47	C1S1S20212				.8 CV	1	1 1
REPUBLC	8193-6A		4000	AS -V	SELECT,3W,3P,MAN ACT ,DIR,	13X13	3.40	00S1S20212				.8 CV	1	1 1
	CLASS:DIR CONT SIZE: 0.41 INCH													
PAUL-M	C-4858		3500	XQ -V	SELECT,4W,3P,MAN ACT ,DIR,	71X71	3.00	F1C0F10200				.00	1	1 1
	CLASS:DIR CONT SIZE: 0.50 INCH													
BARKSDL	4143R9AC3		10000	R -V	SELECT,4W,3P,MAN ACT ,POS,	10X10	4.00	C1C1C10200				1.3 CV	1	0 2
BECKETT	X262-501	75M15080-1	125	B -S	SELECT,5W,3P,MAN ACT ,DIR,	19X19	5.88	S1S1S10200				.00	3	0 1
FUTR-CR	90625-3 (.50)	75M07278-3	10000	ABC-S	CALIBRATN	19X19	2.16	S1S1121200				.00	2	0 1
HENRY	E621A-1		450	R -V	SELECT,3W, , , ,		.00					.00	3	0 2
J,P&C	499T-8TT9	11M00780	3000	B -S	SHUTTLE	15X13	1.25	S1S1S10200				.00	3	0 1
MAROTTA	805184-10474 MOD LV583	11M00870	3000	X -S	SELECT,3W,2P,MAN ACT ,DIR,	13X13	2.63	A1S1140200				.22 EO	2	0 1
PARKER	PL-50		150	KLY-V	SELECT,4W,3P,MAN ACT ,DIR,	10X10	4.38	F1B1F10000				4.0 CV	6	0 2
	CLASS:DIR CONT SIZE: 0.50 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA		DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAL	VALVE MATL ACTR	FLOW FACTOR	P/N TOT	M/R UCR* TOT*
	SIZE: 0.50INCH (CONTD)														
REPUBLC	N80428-8AY2LCD *	75M11428	2000	B	-S	SELECT,4W,2P,MAN ACT ,DIR,	13X13	3.47	00S1S20212				1.9 CV	3	0 1
REPUBLC	R8071B-8HS27	11M00871	2000	X	-S	SELECT,4W,3P,MAN ACT ,DIR,	13X13	3.47	C1S1S20212				2.8 CV	1	0 1
REPUBLC	310-3		50	A	-V	SELECT,3W,2P,MAN ACT ,DIR,	10X10	.00	S1S1121200				.00	1	0 2
REPUBLC	81928-8AS2	75M51397	4000	B	-S	SELECT,3W,2P,MAN ACT ,DIR,	13X13	3.47	C1S1S20212				1.0 CV	1	1 1
	CLASS:DIR CONT SIZE: 0.75 INCH														
FLODYNE	7C46	75M12007	3000	X	-S	SELECT,4W,2P,CAM ACT ,DIR,	19X19	7.50	A1S1A10200				.00	1	0 1
WALWORH	1734		200	R	-V	SELECT,4W,3P,MAN ACT ,DIR,	10X10	4.25	F1F1F11719				14.0 CV	4	0 2
	CLASS:DIR CONT SIZE: 1.00 INCH														
BARKSDL	4145R9AC3		10000	R	-V	SELECT,4W,3P,MAN ACT ,DIR,	10X10	5.00	C1C1C10200				3.2 CV	1	0 2
	CLASS:DIR CONT SIZE: 2.00 INCH														
DURCO	FIG FG321	75M17763-HPV-1			HCD-S			.00					.00	*	*
	CLASS:DIR CONT SIZE: 2.50 INCH														
JOHNSON	V-5840 (2.50)		150	N	-V	SELECT,3W, ,PNEU ACT,PIL,	61X61	7.25	F0B2821700				54.0 CV	1	0 1
	CLASS:DIR CONT SIZE: 2.50 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAL	VALVE MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	CLASS:DIR CONT SIZE: 4.00 INCH													
HONEYWL	1029 V-5013B	75M04406-PPR-4	300	N -S	SELECT,3W,2P,MOTR ACT,DIR,		.00					.00	4	0 1
MINNE-H	V5013A MP953A1202	75M15816-PPR-4	150	N -S	SELECT,3W,2P,MOTR ACT,POS,	6DX6D	.00	B1S1B11200				.00	3	1 1
	CLASS:FLOW REG SIZE: 0.25 INCH													
AUT-PON	FA2DSS		5000		FLO-REST,HYD/PNE,1W,ADJ		2.38	S1S1S10000				.16 OD	1	1
	CLASS:FLOW REG SIZE: 0.38 INCH													
ASCO	FV69-019-3		150	XS -V	FLO-REST,HYD/PNE,1W,ADJ	10X10	2.75	B0S0S00000				.31 OD	15	0 2
AUT-PON	FA25SS		5000		FLO-REST,HYD/PNE,1W,ADJ		2.75	S1S1S10000				.22 OD	2	1
AUT-PON	FMC25SS	75M51488	5000	ABC-S	FLO-REST,HYD/PNE,1W,ADJ		2.75	S1S1S10000				.22 OD	8	0
REPUBLC	660-6	75M09618-PRV-3	6600	BC -S	SHUTOF,Y-GLO,	VAC 13X13	.00	S1S1S11202				.5 CV	1	0 1
	CLASS:FLOW REG SIZE: 0.50 INCH													
HILLS	1/2-5302-S6-T MOD 100		300	R -V	SHUTOF,BALL ,PNEU ACT,DIR,	10X10	3.69	S1S11212C0				.81 OD	2	0 2
	CLASS:FLOW REG SIZE: 0.50 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA		DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL: BODY	TRIM	SEAT	O-RING	FLOW FACTOR	P/N TOT	M/R UCR* TOT* *
	SIZE: 0.50INCH (CONTD)														
MANATRL	F-800-SS6-10	75M11999	5000	X	-S	FLO-REST,HYD/PNE,1W,ADJ	10X10	3.43	S1S1S10612				.31 OD	22	0
REPUBLC	1-1-6	11M00567		X	-S			.00					.00	3	0
REPUBLC	410-8Y28-3	75M08411	1000	B	-S	FLO-REST,PNEU ,1W,ADJ	19X19	3.50	S1S1S10252				.00	26	0 1
REPUBLC	7-31-67-1	11M00567	5000	X	-S	FLO-REST,HYDR ,1W,ADJ	10X10	3.31	A1A1A10200				.00	3	0 2
REPUBLC	8-2967-1	11M00959	1500	B	-S	FLO-REST,PNEU ,1W,ADJ	13X13	3.31	S1S1S10600				.00	4	0 1
ROBSHAW	1006-81	75M09571-1	250	N	-S	FLO-CT,GLOBE,BELLOWS ,TMP,	10X10	4.63	B1S1S11200				.00	2	0 2
VACCO	EML-3P-403-MSNA		3000				13X13	.00	S1S1131200				.00	2	1 1
	CLASS:FLOW REG SIZE: 0.56 INCH														
PAULCHM	PCE-1009A		12000	STH-V		SHUTOF,GLOBE,PNEU ACT,DIR,CRY	46X46	2.50	S1S1121202				1.8 CV	1	1 1
	CLASS:FLOW REG SIZE: 0.75 INCH														
HILLS	3/4-S302-S6-T MOD 100		300	R	-V	SHUTOF,BALL ,PNEU ACT,DIR,	10X10	3.69	S1S1121200				.81 OD	1	0 2
JAMSBRY	A-36-TT (.75)		2000	R	-V	SHUTOF,BALL ,PNEU ACT,DIR,	10X10	3.84	S1S1121200				.56 OD	1	0 2
KEILY	1450-R (.75)		600	R	-V	FLO-CT,GLOBE,PNEU ACT,POS,	62X62	8.13	S0S0S01200				.00	1	0 1
	CLASS:FLOW REG SIZE: .75 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL ACTR	FLOW FACTOR	M/R P/N TOT	M/R UCR TOT
	CLASS:FLOW REG SIZE: 1.00 INCH													
ANNIN	MOD 1700-1	75M17753-HCLV-2		H -S			.00					.00	*	*
ANNIN	M5221 (1.00)	75M05869-LCLV-4		G -S			.00					.00	*	*
ANNIN	M5221 (1.00)	75M05869-LCLV-3		G -S			.00					.00	*	*
ANNIN	10031-60	75M17761-LCLV-1		FG -S			.00					.00	*	*
CRYOVAC	V-1070-100		6000	FGH-V	SHUTOF,GLOBE,PNEU ACT,DIR,J/C	88X88	8.75	S1S1S10000				.00	1	0 3
CRYOVAC	V-1080-100		6000	FGH-V	FLO-CT,GLOBE,PNEU ACT,POS,J/C	88X88	8.75	S1S1S10000				.00	4	0 3
CRYOVAC	722-1.35 (V-1070-100)		6000	FGH-V	SHUTOF,GLOBE,PNEU ACT,DIR,J/C	88X88	8.75	S1S1S10000				.00	6	0 3
FLODYNE	10C19	75M04253		X -S			.00					.00	6	1
MINNE-H	1401 ACT 800-9R		300	R -V	FLO-CT,GLOBE,PNEU ACT,DIR,	60X60	7.75	S1S1S11200				.00	2	0 1
MINNE-H	1401 POS 73N12F		300	R -V	FLO-CT,GLOBE,PNEU ACT,POS,	60X60	7.75	S1S1S11200				.00	2	0 1
MINNE-H	1404 ACT 800-9R		300	R -V	FLO-CT,GLOBE,PNEU ACT,POS,	60X60	.00					.00	2	0 1
MINNE-H	1404 POS 73N12F		300	R -V	FLO-CT,GLOBE,PNEU ACT,POS,	60X60	.00					.00	2	0 1
PARKER	F910-1	75M17751-LSOV-9		FG -S	SHUTOF, , , ,		.00					.00	*	*
ROBSHAW	908A5	11M00821	125	N -S	FLO-REST,HYDR ,1W,ADJ	10X10	2.94	808U0000B2				.00	22	0
	CLASS:FLOW REG SIZE: 1.50 INCH													
ANNIN	MOD 1620-1 1-2IN	75M17763-HGLV-6		HCD-S			.00					.00	*	*
	CLASS:FLOW REG SIZE: 1.50 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.50INCH (CONTD)													
ANNIN	MOD 1660 (1.50)	75M17761-LCLV-3		FG -S	FLO-CT,GLOBE,PNEU ACT,POS,		.00					.00	*	*
ANNIN	MOD 1720-1 1-2IN	75M17763-HGLV-5		HCD-S			.00					.00	*	*
ANNIN	MOD 1760CB	75M17763-HCLV-3		H -S			.00					.00	*	*
CRYOVAC	V-1070-150		6000	FGH-V	SHUTOF,GLOBE,PNEU ACT,DIR,J/C	88X88	10.25	S1S1S10000				.00	1	0 3
DYNEX	VF1293-X-1 ASSY C24896	11M00823-1	500	X -V	FLO-REST,HYDR ,1W,ADJ	13X13	4.38	C0000000200				.00	6	0 1
FLODYNE	15C153	75M11850	3000	X -S	FLO-CT,BALL ,CAM ACT ,DIR,	19X19	7.31	A1S1120200				1.31 OD	1	0 1
FLODYNE	15C154	76K02821	3000	X -S	FLO-CT,BALL , , ,		.00					.00	1	0 1
FLODYNE	15C154	76K02822	3000	X -S	FLO-CT,BALL , , ,		.00					.00	1	0 1
FLODYNE	15C160	75M08820-1		X -S			.00					.00	12	5
FLODYNE	15C19	75M11851	3000	X -S	SHUTOF,BALL ,PNEU ACT,PIL,	19X19	6.75	A1S1120200				1.31 OD	1	0 1
MAROTTA	806157-10458 MOD554H30	11M00800	1000	X -S	SHUTOF, ,HYDR ACT,DIR,	13X13	7.75	S1S1130253				1.30 EO	3	0 1
PACIFIC	G1710YTJ-10K-GL70-WE	75M05752-HGLV-30	150	H -S	FLO-CT,Y-GLO,PNEU ACT,DIR,J/C	88X88	.00	S1S1131200				52.0 CV	1	1 3
	CLASS:FLOW REG SIZE: 2.00 INCH													
ANNIN	MOD 1560 (2.00)	75M15329-FCLV-1		YLM-S	FLO-CT,GLOBE,PNEU ACT,POS,		.00					.00	2	0
ANNIN	MOD 1660 (2.00)	75M17761-LCLV-2		FG -S	FLO-CT,GLOBE,PNEU ACT,POS,		.00					.00	*	*
	CLASS:FLOW REG SIZE: 2.00 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	OTHR	FLOW FACTOR	P/N TOT	M/R UCR	M/R TOT
	SIZE: 2.00INCH (CONTD)														
ANNIN	MOD 1660 (2.00)	75M17761-LCLV-6		FG -S	FLO-CT,GLOBE,PNEU ACT,POS,		.00					.00	*		*
ANNIN	MOD 1660 (2.00)	75M17761-LCLV-5		FG -S	FLO-CT,GLOBE,PNEU ACT,POS,		.00					.00	*		*
ANNIN	MOD 1660 (2.00)	75MC5869-LCLV-1		FG -S	FLO-CT,GLOBE,PNEU ACT,POS,		.00					.00	26	11	
ANNIN	MOD 1720-2	75M17763-HGLV-9		HCD-S			.00					.00	*		*
ANNIN	MOD 1760-2	75M17763-HCLV-4		H -S			.00					.00	*		*
ANNIN	MOD 1820-2	75M17763-HGLV-22		HCD-S			.00					.00	*		*
ANNIN	SER1700,DWGA4502(2.0)	75M05752-HAV-1	28C	HFG-S	FLO-CT,ANGLE,PNEU ACT,POS,J/C	88X88	.00	S1S1121200				.20	6	41	3
HADLEY	11756-6	75M17751-LSOV-7		FG -S	SHUTOF, , , ,		.00					.00	*		*
HILLS	2-S301-S6-T MOD 200		3CC	R -V	SHUTOF,BALL ,PNEU ACT,DIR,	62X62	8.50	S1S1121200				1.50 OD	4	0	1
HONEYWL	1105		150	R -V	FLO-CT,GLOBE,PNEU ACT,PIL,	62X62	10.50	F1S1S11200				.00	1	0	1
KEILY	5250 (2.00)		6CC	R -V	FLO-CT,GLOBE,PNEU ACT,DIR,	62X62	11.25	S0S0S01200				.00	1	0	1
ROYAL	11636-6	75M05869-LBFV-14		G -S			.00					.00	*		*
ROYAL	2010001	75M05869-LBFV-18		C -S			.00					.00	*		*
	CLASS:FLOW REG SIZE: 3.00 INCH														
ANNIN	MOD 1600 (3.00)	75M17751-LCLV-4		FG -S			.00					.00	*		*
	CLASS:FLOW REG SIZE: 3.00 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	SEAL	OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 3.00INCH (CONTD)														
ANNIN	MOD 1660 (3.00)	75M05869-LCLV-2		G -S	FLO-CT,GLOBE,PNEU ACT,POS,		.00						.00	8	7
ANNIN	MOD 1660 (3.00)	75M17763-HCLV-5		H -S	FLO-CT,GLOBE,PNEU ACT,POS,		.00						.00	*	*
ANNIN	MOD 1800-3	75M17763-HGLV-23		HCD-S			.00						.00	*	*
ANNIN	1600 (3.00)	75M05869-LCLV-2		G -S			.00						.00	*	*
CALMEC	TM-163 640A1	75M51247-1	6000	ABC-S	SHUTOF,Y-GLO,PNEU ACT,PIL,		.00						.00	1	1 1
CALMEC	TM-163 6406A2	75M51247-1	6000	ABC-S	SHUTOF,Y-GLO,PNEU ACT,PIL,		.00						.00	1	1 1
CALMEC	TM-163 6406A3	75M51247-1	6000	ABC-S	SHUTOF,Y-GLO,PNEU ACT,PIL,		.00						.00	1	1 1
CALMEC	TM-163 6406A6	75M51247-1	6000	ABC-S	SHUTOF,Y-GLO,PNEU ACT,PIL,		.00						.00	1	1 1
CALMEC	TM-163 6406A7	75M51247-1	6000	ABC-S	SHUTOF,Y-GLO,PNEU ACT,PIL,		.00						.00	1	1 1
CALMEC	TM-163 6406A8	75M51247-1	6000	ABC-S	SHUTOF,Y-GLO,PNEU ACT,PIL,		.00						.00	1	1 1
CALMEC	TM-163 64064A	75M51247-1	6000	ABC-S	SHUTOF,Y-GLO,PNEU ACT,PIL,		.00						.00	1	1 1
HADLEY	11830-6	75M17761-LSOV-5		FC -S	SHUTOF, , , ,		.00						.00	*	*
HILLS	3-S301-S6-T MOD CB-420		300	R -V	SHUTOF,BALL ,PNEU ACT,DIR,	62X62	11.12	S1S1121200					2.25 OD	1	0 1
JAMSBRY	D-150F-22-TT (3.00)		275	R -V	SHUTOF,BALL ,PNEU ACT,DIR,	61X61	8.00	C1S1121200					2.31 OD	1	0 1
MINNE-H	1201 POS 800-18SD		600	R -V	FLO-CT,GLOBE,PNEU ACT,POS,	60X60	13.25	S1S1S11900					.00	2	0 1
PACIFIC	G1710JYT-10K-0070-WE	75M05752-HGLV-24	150	H -S	FLO-CT,Y-GLO,PNEU ACT,DIR,J/C	88X88	.00	S1S1131200					162.0 CV	24	13 3

CLASS:FLOW REG
SIZE: 3.00 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAL	VALVE MATL ACT	VALVE MATL OTH	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 3.00INCH (CONTD)														
ROYAL	11713	75M05752-HSDV-2		BC -S			.00						.00	1	0
ROYAL	11781-6	75M05869-LBFV-16		G -S			.00						.00	*	*
	CLASS:FLOW REG SIZE: 4.00 INCH														
ANNIN	DWG A4509(4.00)SCH 5BW	75M05752-HGLV-2	280	H -S	FLO-CT,GLOBE,PNEU ACT,POS,J/C	88X88	20.00	S1S1121200					225.0 CV	1	2 3
ANNIN	MOD 1660 (4.00)	75M05867-FCLV-1		Y -S	FLO-CT,GLOBE,PNEU ACT,POS,		.00						.00	9	6
ANNIN	MOD 1820-4	75M17763-HGLV-19		HCD-S			.00						.00	*	*
ANNIN	MOD 1820-4	75M17763-HGLV-20		HCD-S			.00						.00	*	*
ANNIN	MOD 1820-4	75M17763-HGLV-21		HCD-S			.00						.00	*	*
CALMEC	TM-163-6406A5	75M51247-2	10000	ABC-S	SHUTOF,Y-GLO,PNEU ACT,PIL,		.00						.00	1	2 1
CHEMTRN	10-U-F4-V-L	75M05752-HCLV-1	150	FGH-S	FLO-CT,GLOBE,PNEU ACT,POS,CRY	62X62	.00	S1S1131200					180.0 CV	1	1 1
CRANE	83705	75M09825	350	N -S	SHUTOF,BALL ,PNEU ACT,PIL,	62X62	12.00	S1S1120600					.00	6	0 1
EFCO	D-2158-C	75M05857-FBV-2		Y -S			.00						.00	*	*
HILLS	4-S301-S6-T MOD CB-525		300	R -V	SHUTOF,BALL ,PNEU ACT,DIR,	62X62	12.00	S1S1121200					3.00 OD	4	0 1
HYDRMAT	A231P4	75M15329-FBV-5	200	YLM-S	SHUTOF,BALL ,PNEU ACT,DIR,	61X61	12.50						.00	5	2 1
PACIFIC	61710JYT-10K-CC70	75M05752-HGLV-28		H -S			.00						.00	3	3
	CLASS:FLOW REG SIZE: 4.00 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	VALVE MATL TRIM	SEAL	OTH	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 4.00INCH (CONTD)													
PACIFIC	G1710YTJ-10K-3070-WE5	75M05752-HGLV-53	150	H -S	FLO-CT,Y-GLO,PNEU ACT,DIR,J/C	88X88	.00	S1S1131200				270.0 CV	6	13 3
PACIFIC	G1710YTJ-10K-3070-WE5	75M05752-HGLV-23	150	H -S	FLO-CT,Y-GLO,PNEU ACT,DIR,J/C	88X88	.00	S1S1131200				270.0 CV	2	1 3
PARKER	F913-1	75M17761-LSOV-4		FG -S	SHUTOF, , , ,		.00					.00	*	*
PARKER	F913-2	75M17761-LSOV-3		FG -S	SHUTOF, , , ,		.00					.00	*	*
ROYAL	2010026-6	75M05869-LBFV-24		G -S			.00					.00	*	*
	CLASS:MANUAL SIZE: 0.25 INCH													
AMINCO	44-13106		30000		NEEDLE ,OFFSET, , ,	46X46	3.75	S1S2S112S2				.2 CV	63	0 1
AMINCO	44-13106-A		30000		NEEDLE ,OFFSET, , ,	46X46	3.75	S1S2S112S1				.2 CV	6	0 1
AMINCO	44-1525	75M09220-PAV-1	15000	D -S	NEEDLE ,ANGLE , , ,	46X46	.00	S1S2S112S2				.09 OD	41	1
AMINCO	44-1525	75M09618-PAV-1	15000	D -S	NEEDLE ,ANGLE , , ,	46X46	.00	S1S2S112S2				.09 OD	4	1 1
APCO	5071-1010-2	75M17763-HGLV-29		CD -S	, , , ,		.00					.00	*	*
APCO	5071CK-04P		6000	ST -V	GLOBE ,INLINE,SHUTOFF , ,P	10X10	2.12	S1S1131200				.5 CV	1	0 2
APCO	5071CK-04T		6000	ST -V	GLOBE ,INLINE,SHUTOFF , ,P	13X13	2.12	S1S1131200				.25 OD	2	0 1
APCO	5071CKX04T	75M05752-HGLV-15	6000	H -S	GLOBE ,INLINE,SHUTOFF ,CRY,P	13X13	2.12	S1S1131200				.5 CV	27	0 1
APCO	5071CKX04T		6000	GST-V	GLOBE ,INLINE,SHUTOFF ,CRY,P	13X13	2.12	S1S1131200				.5 CV	27	0 1
	CLASS:MANUAL SIZE: 0.25 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	SEAT MATL	SEAL MATL	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.25INCH (CONTD)													
APCO	5071X1006-4	75M09220-PGLV-1	6000	C -V	GLOBE ,INLINE,SHUTOFF , ,P	13X13	2.12	S	1	S	1	13	0212	.5 CV 61 0
APCO	5071X1006-4	75M05871-PGLV-13	6000	D -S	GLOBE ,INLINE,SHUTOFF , ,P	13X13	2.12	S	1	S	1	1	1212	.5 CV 8 0 1
APCO	5071X106-4	75M09618-PGLV-1	6000	D -S	GLOBE ,INLINE,SHUTOFF , ,P	13X13	2.12	S	1	S	1	13	0212	.5 CV 201 0
AUTOCLV	15SV-4071		15000	FGH-V	NEEDLE ,OFFSET, ,CRY,P	50X50	1.80	S	1	S	1	1	1200	.11 OD 1 0 1
AUTOCLV	15SV-4071B		15000	FGH-V	NEEDLE ,OFFSET, ,CRY,P	50X50	1.80	S	1	S	1	1	1200	.11 OD 3 0 1
AUTOCLV	15SV-4072B		15000	FGH-V	NEEDLE ,ANGLE , ,CRY,P	50X50	1.80	S	1	S	1	1	1200	.11 OD 0 1
AUTOCLV	20-7163-3 (0.25)	75M05871-PAV-3	6000	D -S	GLOBE ,ANGLE ,SHUTOFF , ,	46X46	.00	S	1	S	1	1	1200	.09 OD * * 1
AUTOCLV	20-7163-3 (0.25)	75M05871-PAV-1	6000	BC -S	GLOBE ,ANGLE ,SHUTOFF , ,	46X46	.00	S	1	S	1	1	1200	.09 OD * * 1
AUTOCLV	20-7168-2	75M05871-PGLV-1	6000	FGH-V	NEEDLE ,OFFSET, ,CRY,P	50X50	2.00	S	1	S	1	1	1200	.09 OD 1 0 1
AUTOCLV	20-7168-2		6000	FGH-V	NEEDLE ,OFFSET, ,CRY,P	50X50	2.00	S	1	S	1	1	1200	.09 OD 1 0 1
AUTOCLV	20-7851-1	75M51315-1	6000	ABC-S	NEEDLE ,OFFSET, , ,P	19X19	2.00	S	1	S	1	1	1200	.19 OD 1 1 1
CARDAIR	3510-0083	75M51076-1	6000	ABC-S	GLOBE ,OFFSET,SHUTOFF , ,P	19X19	3.00	S	1	S	1	0	200	.17 OD 1 0 1
CIRSEAL	949T-2PP(T)		6000	R -V	NEEDLE ,INLINE,SHUTOFF , ,N	10X10	2.00	S	1	S	1	0	200	.00 1 0 2
CONTROL	MV6004T-P	11MC08C8-3	6000	BX -S	GLOBE ,INLINE,SHUTOFF ,VAC,P	13X13	2.00	S	1	S	1	2	1200	.3 CV 2 0 1
CONTROL	MV6004T-P	75M17761-LNV-1	6000	FG -S	GLOBE ,INLINE,SHUTOFF ,VAC,P	13X13	2.00	S	1	S	1	2	1200	.3 CV 1 0 1
CRANE	218D		200	R -V	BALL ,INLINE,SHUTOFF , ,N	10X10	2.12	B	1	B	1	B	1200	.44 OD 123 0 2

CLASS:MANUAL
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAL	VALVE MATL ACTR	VALVE MATL OTH	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.25INCH (CONTD)														
CRANE	702		200	R -V	COCK ,INLINE,SHUTOFF ,	,N	09X73	2.50	B3B3B31700				.00	12	0 2
CRANE	712		200	R -V	COCK ,INLINE,SHUTOFF ,	,N	10X10	2.50	B3B3B31700				.00	9	0 2
CRANE	88		400	R -V	GLOBE ,INLINE,FLOW REG,	,N	10X10	1.56	B3B3B31700				.19 OD	2	0 2
DRAGON	P10F-0-3-4		10000	R -V	NEEDLE ,INLINE,SHUTOFF ,	,P	13X13	2.00	S1S1S11700				.19 OD	1	0 1
DRAGON	P10M-0-3-4-T		6000	R -V	NEEDLE ,INLINE,SHUTOFF ,	,P	13X13	2.00	S1S1S11200				.19 OD	1	0 1
DRAGON	P10M-0-5-4-T		6000	R -V	NEEDLE ,INLINE,SHUTOFF ,	,P	13X13	2.00	S1S1S11200				.19 OD	1	0 1
DRAGON	P3354-T		4500	ST -V	NEEDLE ,INLINE,METERING,	,P	27X27	1.75	S1S1S11700				.00	1	0 1
DRAGON	P4053-KT		4500	ST -V	NEEDLE ,INLINE,SHUTOFF ,	,P	10X10	1.75	S1S113120U				.17 OD	6	0 2
DRAGON	P4054-K		4500	ST -V	NEEDLE ,INLINE,SHUTOFF ,	,P	13X13	1.75	S1S113020U				.17 OD	1	0 1
DRAGON	P4753-K		4500	ST -V	NEEDLE ,ANGLE ,SHUTOFF ,	,P	10X10	.88	S1S113020U				.17 OD	4	0 2
DRAGON	10M-0-3-4-T		6000	R -V	NEEDLE ,INLINE,SHUTOFF ,	,N	13X13	2.00	S1S1S1200				.19 OD	1	1 1
DRAGON	4053-KT		4500	ST -V	NEEDLE ,INLINE,SHUTOFF ,	,N	10X10	1.75	S1S113120U				.17 OD	1	0 2
DRAGON	808-0-5-4-K	75M25545-1	10000	FGH-V	NEEDLE ,INLINE,SHUTOFF ,E-8,P		13X13	2.00	S1S1S11300				.5 CV	8	0 1
DRAGON	816-0-5-3-TT		1500	ST -V	NEEDLE ,INLINE,SHUTOFF ,	,P	10X10	2.25	S1S112120U				.19 OD	2	0 2
DRAGON	818-0-5-3-TT		1500	ST -V	NEEDLE ,INLINE,SHUTOFF ,	,P	10X10	2.25	S1S112120U				.19 OD	2	0 2
DRAGON	818-0-5-4-KT		6000	ST -V	NEEDLE ,INLINE,SHUTOFF ,	,P	13X13	2.25	S1S113120U				.19 OD	1	0 1

CLASS:MANUAL
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL SEAT	VALVE MATL STEM	VALVE MATL OTHER	FLOW FACTOR	P/N TOT	M/R UCR* TOT*
	SIZE: 0.25INCH (CONTD)													
DRAGON	818-0-5-4-KV		6000	ST -V	NEEDLE ,INLINE,SHUTOFF ,	,P	13X13	2.25	S1S1130600			.19 OD	9	0 1
DRAGON	818-7-5-4-KV		6000	ST -V	NEEDLE ,ANGLE ,SHUTOFF ,	,P	13X13	2.00	S1S1130600			.19 OD	1	0 1
EDWARDS	6628F 316 (0.25)		4500	CD -V	GLOBE ,INLINE,METERING,	,N		.00				.00	1	0 1
FUTR-CR	30130	75M03568	3000	X -S	BUTTON ,OFFSET,SHUTOFF ,	,P	13X13	1.75	S0A0S01800			.00	8	4 1
FUTR-CR	30130-1	10425920	3000	ABC-S	BUTTON ,OFFSET,SHUTOFF ,	,P	13X13	1.75	S0S0S01800			.00	20	0 1
FUTR-CR	30404S	75M50161-1	6000	ABC-S	GLOBE ,INLINE,SHUTOFF ,	,P	13X13	2.00	S1S1S10200			.20 OD	2	2 1
GROVE	10898K-N	75M25446-1	6000	BM -V	NEEDLE ,INLINE,SHUTOFF ,	,N	10X10	2.00	S1S1S11700			.00	93	1 2
GROVE	10898K-N	75M25439-1	6000	BM -V	NEEDLE ,INLINE,SHUTOFF ,	,N	10X10	2.00	S1S1S11700			.00	93	1 2
GROVE	10898K-N	75M25444-1	6000	BM -V	NEEDLE ,INLINE,SHUTOFF ,	,N	10X10	2.00	S1S1S11700			.00	22	0 2
GROVE	10898K-N	75M15329-FNV-1	6000	YLM-S	NEEDLE ,INLINE,SHUTOFF ,	,N	10X10	2.00	S1S1S11700			.00	93	0 2
GROVE	10983KP2A	75M17761-LGLV-4	3000	B -S	GLOBE , , ,	,		.00				.00	*	*
HOKE	4PY281-280-25	75M02711-2	3000	ABC-S	NEEDLE ,INLINE,METERING,	,P	10X10	2.00	S1S1S11200			.3 CV	1	0 2
HOKE	453 (#1531F4B)		100	ST -V	TOGGLE ,INLINE,SHUTOFF ,	,P	10X10	1.88	B4B4170200			.6 CV	1	0 2
IMPE AST	100-C		100	R -V	PLUG ,INLINE,SHUTOFF ,VAC	,P	31X31	2.13	B6S4B61700			.6 CV	8	0 1
J,P&C	P22-416	75M11873	3000	X -S	PLUG ,INLINE,SHUTOFF ,	,N	42X30	1.42	S1S1S10200			.00	8	0 1
J,P&C	9459T-2PP		2200	P4B-V	NEEDLE ,INLINE,SHUTOFF ,	,N	10X10	1.86	S1S1120200			.16 OD	1	0 2

CLASS:MANUAL
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAL	VALVE MATL ACTR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.25INCH (CONTD)													
J.P&C	949T-4BB(P)	75M11874	3000	ABX-S	NEEDLE,INLINE,SHUTOFF,,P	19X19	2.00	S1S1120200				.17 OD	3	2 1
JAMSBRY	A-36-TT (.25)		2000	R -V	BALL ,INLINE,SHUTOFF,,N	10X10	2.94	S1S1121200				.44 OD	2	0 2
KERO-T	R-224-X1 (.25)	75M15816-PGLV-2	375	Z -S	DIPHRAM,,,,,	75X	.00					.00	3	0 3
LUNKHMR	FIG 123 (0.25)	75M15816-PGLV-6	300	R -S	GLOBE ,INLINE,,,N	10X10	2.00	B2B72019B2				.00	17	1 2
LUNKHMR	FIG 123 (0.25)	75M04406-PGLV-6	300	R -V	GLOBE ,INLINE,,,N	10X10	2.00	B2B72019B2				.00	17	1 2
MAROTTA	230423 MOD HVN4D	75M51257-2	6000	ABC-S	GLOBE ,INLINE,,,P	19X19	3.00	S1S1140225				.14 EO	20	2 1
MUELLER	A-14838 1/4 ODF	75M15816-PGLV-5	425	Z -S	DIPHRAM,INLINE,SHUTOFF,,N	76X76	2.13	B6B6140300				.00	11	0 1
MUELLER	A-14838 1/4 ODF	75M04406-PGLV-5	425	Z -S	DIPHRAM,INLINE,SHUTOFF,,N	76X76	2.13	B6B6140300				.00	7	0 1
POWELL	1872		400	R -V	GLOBE ,INLINE,SHUTOFF,,N	76X76	2.75	B3B7B31900				.00	2	0 3
POWELL	70-1861KDSE	75M17763-HGLV-31		COM-S	GLOBE,,,,,		.00					.00	*	*
R-P&C	1040A		10000	R -V	GLOBE ,INLINE,FLOW REG,,N	10X10	.00	C1S4C11900				.00	1	0 2
REPUBLC	T133-1/4-B2P		200	STK-V	LEVER ,INLINE,SHUTOFF,,P	10X10	1.88	B4B402B200				.3 CV	91	0 1
REPUBLC	133-1/4-SS		200	STK-V	LEVER ,INLINE,SHUTOFF,,P	10X10	1.88	S1S1121200				.3 CV	1	1 2
REPUBLC	138-1/4-SS	75M05867-FNV-1	200	Y -S	LEVER ,INLINE,SHUTOFF,,P	27X27	1.88	S1S1121200				.2 CV	9	0 1
REPUBLC	138-1/4-SS	75M05432-FNV-1	200	STK-V	LEVER ,INLINE,SHUTOFF,,P	27X27	1.88	S1S1121200				.2 CV	9	0 1

CLASS:MANUAL
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
SIZE: 0.25INCH (CONTD)														
ROBBINS	SSKA250-4C-768	75M51329-1	6000	QAB-S	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.25	S1S1130200				.2 CV	80	3 1
ROBBINS	SSKA250-4C-768	75M08413-1	6000	BX -S	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.25	S1S1130200				.2 CV	12	0 1
ROBBINS	SSKA250-4C-787	75M51329-1	6000	QAB-S	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.25	S1S1130200				.2 CV	2	0 1
ROBBINS	SSKA250-4C-787		6000	STK-V	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.25	S1S1130200				.2 CV	48	0 1
ROBBINS	SSKG250-4C-768	75M08414-1	6000	BX -S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S1S1130200				.1 CV	107	2 1
ROBBINS	SSKG250-4C-768	75M51328-3	6000	E -S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S1S1130200				.1 CV	27	0 1
ROBBINS	SSKG250-4C-768-12	75M51328-1	6000	E -S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S1S1130600				.1 CV	9	0 1
ROBBINS	SSKG250-4C-787	75M51328-1	6000	E -S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S1S1130200				.1 CV	6	0 1
ROBBINS	SSKG250-4C-787	75M54328-1	6000	STK-S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S1S1130200				.1 CV	43	0 1
ROBBINS	SSKG250-4C-787	75M01805-1	6000	ABC-S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S1S1130200				.1 CV	1	0 1
ROBBINS	SSKG250-4C-787-12	75M51328-1	6000	E -S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S1S1130600				.1 CV	6	0 1
ROBBINS	SSKG250-4T	75M17763-HGLV-1	6000	HCD-S	GLOBE ,INLINE,METERING,VAC,P	13X13	2.25	S1S1130200				.1 CV	1	0 1
ROBBINS	SSKG250-4T-768	75M25527-1	6000	STK-V	GLOBE ,INLINE,METERING,VAC,P	13X13	2.25	S1S1130200				.1 CV	16	0 1
ROBBINS	SSKG250-4T-768		6000	STK-V	GLOBE ,INLINE,METERING,VAC,P	13X13	2.25	S1S1130200				.1 CV	1	0 1
ROBBINS	SSNA250-4C-787	75M01305-1	6000	ABC-S	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.25	S1S1140200				.2 CV	74	4 1
ROBBINS	SSNA250-4T	75M17753-HGLV-15	6000	HCD-S	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.25	S1S1140200				.2 CV	1	0 1

CLASS:MANUAL
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	SOLT	M/R O-RING	FLOW FACTOR	P/N TOT	UCR TOT	M/R
	SIZE: 0.25INCH (CONTD)															
ROBBINS	SSNG250-4C-768	75M01720-4	6000	ABC-S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S1S1140200					.1 CV	19	0	1
ROBBINS	SSNG250-4C-787		6000	STK-V	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S1S1140200					.1 CV	2	0	1
ROBBINS	SSNG250-4C-787	75M01720-4	6000	ABC-S	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S1S1140200					.1 CV	1	0	1
ROBBINS	SSNG250-4T	75M25439-1	6000	STK-V	GLOBE ,INLINE,METERING,VAC,P	13X13	2.25	S1S1140200					.1 CV	4	0	1
ROBBINS	SSNG250-4T-768	75M25050	6000	STK-V	GLOBE ,INLINE,METERING,VAC,P	13X13	2.25	S1S1140200					.1 CV	1	1	1
ROBBINS	SSNG250-4T-768		6000	STK-V	GLOBE ,INLINE,METERING,VAC,P	13X13	2.25	S1S1140200					.1 CV	3	0	1
ROBBINS	SSTG250-4C-768	75M25527-2	1000	STK-V	GLOBE ,INLINE,METERING,VAC,P	19X19	2.25	S1S1120200					.1 CV	2	0	1
STOCKHM	FIG B-14 (0.25)		200	R -V	GLOBE ,INLINE, , ,	76X76	2.66	B2B2201967					.00	2	0	3
TESCOM	SERIES 1100	79K00028-3-3-1	6000	ABC-S	GLOBE ,INLINE,SHUTOFF , ,P	19X19	2.23	S1S1130206					.00	8	0	1
TESCOM	30-1100-104		10000	ST -V	GLOBE ,ANGLE ,SHUTOFF , ,P	33X33	2.23	S1S3140602					.5 CV	1	0	1
TESCOM	30-1100-104-002		10000	ST -V	GLOBE ,ANGLE ,SHUTOFF , ,P	33X33	2.23	S1S3140602					.5 CV	8	0	1
TESCOM	30-1100-104-0028		10000	ST -V	GLOBE ,ANGLE ,SHUTOFF , ,P	33X33	2.23	S1S3140602					.5 CV	1	0	1
TESCOM	30-1100-104-002V		10000	ST -V	GLOBE ,ANGLE ,SHUTOFF , ,P	33X33	2.23	S1S3140602					.5 CV	1	0	1
TESCOM	30-1100-304		10000	ST -V	GLOBE ,ANGLE ,SHUTOFF , ,P	13X13	2.23	S1S3140602					.5 CV	7	0	1
TESCOM	30-1101-104		10000	ABC-V	GLOBE ,INLINE,SHUTOFF , ,P	33X33	2.23	S1S3140602					.3 CV	2	1	1
TESCOM	30-1101-104-404		10000	ST -V	GLOBE ,INLINE,SHUTOFF , ,P	33X33	2.23	S1S3140602					.3 CV	7	0	1

CLASS:MANUAL
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	ACTL	OTH	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.25INCH (CONTD)														
TESCOM	30-1101-104C		10000	ST -V	GLOBE ,INLINE,SHUTOFF ,	,P	33X33	2.23	S1S3140602				.3 CV	4	0 1
TESCOM	30-1101-304		10000	ST -V	GLOBE ,INLINE,SHUTOFF ,	,P	13X13	2.23	S1S3140602				.3 CV	1	0 1
TESCOM	30-1101-304-E		10000	ST -V	GLOBE ,INLINE,SHUTOFF ,	,P	13X13	2.23	S1S3140602				.3 CV	1	0 1
TESCOM	30-1111-104-002		10000	ST -V	GLOBE ,INLINE,METERING,	,P	33X33	2.23	S1S3140602				.3 CV	2	0 1
TESCOM	30-1111-104-004	75M51365	10000	ST -V	GLOBE ,INLINE,METERING,	,P	33X33	2.23	S1S3140602				.3 CV	2	0 1
TESCOM	30-1111-104-309		10000	ST -V	GLOBE ,INLINE,METERING,	,P	33X33	2.23	S1S3140602				.3 CV	1	0 1
VACCO	NV-6P-201-2G	75M05871-PGLV-13	6000	D -S	NEEDLE ,INLINE,FLOW REG,	,P	13X13	2.25	S1S1140212				.2 CV	8	0 1
VACCO	NV-6P-401B-2M	75M25444-1	6000	BC -V	GLOBE ,INLINE,METERING,	,P	13X13	2.00	S1S1140212				.3 CV	85	6 1
VACCO	NV-6P-401B-2M	10428535	6000	BC -V	GLOBE ,INLINE,METERING,	,P	13X13	2.00	S1S1140212				.3 CV	85	6 1
VACCO	NV-6P-401B-2M	75M25441-1	6000	BC -V	GLOBE ,INLINE,METERING,	,P	13X13	2.00	S1S1140212				.3 CV	85	6 1
VACCO	NVA-6P-401-2G	75M25446-1	6000	BC -V	NEEDLE ,ANGLE ,SHUTOFF ,	,P	13X13	1.06	S1S1130200				.2 CV	18	0 1
VACCO	NVA-6P-401-2G	10428554	6000	BC -V	NEEDLE ,ANGLE ,SHUTOFF ,	,P	13X13	1.06	S1S1130200				.2 CV	18	0 1
WHITEY	1RS4		3000	ST -V	NEEDLE ,INLINE,FLOW REG,	,P	54X54	2.31	S1S1S11200				.4 CV	14	0 1
WHITEY	1VF4-A-316 MODIFIED	75M11855	3000	X -S	NEEDLE ,ANGLE ,FLOW REG,	,P	19X19	1.06	S1S1S11200				.1 CV	3	7 2
WHITEY	22R-316 MODIFIED	75M11876	3000	AB -S	NEEDLE ,INLINE,METERING,	,P	19X19	2.00	S1S1S11206				.1 CV	2	2 1
WHITEY	5RF4-316 MODIFIED	75M11871	3000	X -S	NEEDLE ,INLINE,FLOW REG,	,P	19X19	2.13	S1S1S11200				.3 CV	1	0 1

CLASS:MANUAL
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	VALVE TRIM	VALVE SEAT	MATL ACTL	MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	CLASS:MANUAL SIZE: 0.38 INCH														
APCO	5071BK-06T		6000	ST -V	GLOBE ,INLINE,SHUTOFF , ,P	13X13	2.12	S1S1131200					1.2 CV	11	0 1
APCO	5071BKX06T	75M05752-HGLV-14	6000	D -S	GLOBE ,INLINE,SHUTOFF ,CRY,P	13X13	2.12	S1S1131200					1.2 CV	11	0 1
APCO	5071BKX06T	75M13207-PGLV-14	6000	GST-V	GLOBE ,INLINE,SHUTOFF ,CRY,P	13X13	2.12	S1S1131200					1.2 CV	11	0 1
APCO	5071X1004-3	75MC9618-PGLV-2	6000	D -S	GLOBE ,INLINE,SHUTOFF , ,P	13X13	2.12	S1S1131202					1.2 CV	1	0 1
APCO	5071X1006-4	75M09220-PGLV-2	6000	D -S	GLOBE ,INLINE,SHUTOFF , ,P	13X13	2.12	S1S1131202					1.2 CV	1	0 1
APCO	5071X1006-6	75M13207-PGLV-14	6000	B -V	GLOBE ,INLINE,SHUTOFF , ,P	13X13	2.12	S1S1130212					1.2 CV	5	0 1
APCO	5073BK-06T		6000	ST -V	GLOBE ,ANGLE ,SHUTOFF , ,P	13X13	2.12	S1S1131200					1.6 CV	13	0 1
APCO	5073BKX06T		6000	GST-V	GLOBE ,ANGLE ,SHUTOFF ,CRY,P	13X13	2.12	S1S1131200					1.6 CV	4	0 1
APCO	5073X1007	75M15044-PAV-1	6000	BC -S	GLOBE ,ANGLE ,SHUTOFF , ,P	13X13	.00	S1S1131200					.5 CV	259	24 1
APCO	5073X1007	75MC5871-PAV-4	6000	BC -S	GLOBE ,ANGLE ,SHUTOFF , ,P	13X13	.00	S1S1131200					.5 CV	259	24 1
APCO	5073X1007	75M09220-PAV-2	6000	BC -S	GLOBE ,ANGLE ,SHUTOFF , ,P	13X13	.00	S1S1131200					.5 CV	3	0 1
APCO	5073X1007	75MC9618-PAV-2	6000	BC -S	GLOBE ,ANGLE ,SHUTOFF , ,P	13X13	.00	S1S1131200					.5 CV	79	4 1
AUTOCLV	20-7893	75M51315-2	6000	ABC-S	NEEDLE ,OFFSET, , ,P	19X19	2.50	S1S1S11200					.31 OD	4	2 1
CARDAIR	3510-0082	75M51076-2	6000	ABC-S	GLOBE ,OFFSET,SHUTOFF , ,P	19X19	3.00	S1S1S10200					.30 OD	1	0 1
CONTROL	MV1006T-P-HL	11M00795-1	6000	BX -S	GLOBE ,INLINE,SHUTOFF ,VAC,P	13X13	2.50	S1S1121200					1.8 CV	1	0 1
	CLASS:MANUAL SIZE: 0.38 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL: BODY	TRIM	SEAT	SEAL	CGT HDR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.38INCH (CONTD)														
CONTROL	MV6006T-P	11M00808-5	6000	BX -S	GLOBE ,INLINE,SHUTOFF ,E-B ,P	13X13	2.50	S1S1121200					1.8 CV	1	U 1
CRANE	7		300	R -V	GLOBE ,INLINE,SHUTOFF , ,N	10X10	2.31	B3B3B31700					.00	3	U 2
DRAGON	818-0-5-5-KT		6000	ST -V	NEEDLE ,INLINE,SHUTOFF , ,P	10X10	3.00	S1S1131200					.31 OD	3	U 2
DRAGON	818-0-5-6-KR		6000	ST -V	NEEDLE ,INLINE,SHUTOFF , ,P	13X13	3.00	S1S1130200					.31 OD	1	U 1
DRAGON	818-0-5-6-KT		6000	ST -V	NEEDLE ,INLINE,SHUTOFF , ,P	13X13	3.00	S1S1131200					.31 OD	1	U 1
FUTR-CR	304065	75M50151-3	6000	ABC-S	GLOBE ,INLINE,SHUTOFF , ,P	13X13	2.50	S1S1S10200					.30 OD	1	1 1
GROVE	10909K (.38)		3000	ABC-V	GLOBE ,OFFSET,SHUTOFF , ,P	13X13	2.00	S1S1S10000					.00	1	1 1
GROVE	10983KP3A		6000	R -V	NEEDLE ,INLINE,SHUTOFF , ,P	10X10	2.00	S1S1S11200					.00	5	U 2
HAMMOND	FIG 609		200	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	1.63	B2B2B21900					.5 CV	74	4 2
HOKE	2112F6B		3000	ST -V	NEEDLE ,INLINE,SHUTOFF , ,P	10X10	2.00	B4S1B41200					.8 CV	4	U 2
KENNEDY	FIG 427SJ (.38)		200	R -V	GATE ,INLINE,SHUTOFF , ,N	76X76	1.81	B1B1B11700					.00	1	U 3
MAROTTA	230413 MOD HVN6D	75M51327-1	6000	ABC-V	GLOBE ,INLINE, , ,P	15X19	3.00	S1S11402C0					.20 EQ	11	13 1
MARSHAL	201 (.38)		10000	R -V	NEEDLE ,INLINE,FLOW REG, ,N	10X10	2.00	S1S1S11200					.19 OD	2	U 2
PACIFIC	FIG 3-8-701F6-12K	75M17753-HGLV-3		HCO-S	GLOBE , , , ,		.00						.00	*	*
PACIFIC	701-EB (.38)	75M05752-HGLV-19	275	H -S	GLOBE ,INLINE,SHUTOFF ,CRY,N	1LX10	3.75	S1S1131200					.00	3	U 2

CLASS:MANUAL
SIZE: 0.38 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL: BODY	TRIM	SEAT	OTHER	FLOW FACTOR	P/N TOT	M/R UCR* TOT*
SIZE: 0.38INCH (CONTD)														
ROBBINS	KT-180-6C-12-763	75M51327	6000	E -S	GLOBE ,3-PORT,METERING,VAC,P	19X19	2.12	S1S1136600				.3 CV	1	0 1
ROBBINS	NT-180-6C-787	10437694	6000	ABC-S	GLOBE ,3-PORT,METERING,VAC,P	19X19	2.12	S1S1140200				.3 CV	84	1 1
ROBBINS	SSKG375A-6C-768	75M08414-2	6000	BX -S	GLOBE ,INLINE,METERING,VAC,P	19X19	3.93	S1S1130200				.9 CV	27	1 1
ROBBINS	SSKG375A-6C-768-12	75M51328-2	6000	E -S	GLOBE ,INLINE,METERING,VAC,P	19X19	3.93	S1S1130200				.9 CV	31	1 1
ROBBINS	SSKG375A-6T		6000	STK-V	GLOBE ,INLINE,METERING,VAC,P	13X13	3.93	S1S1130200				.9 CV	2	0 1
ROBBINS	SSKG375A-6T-768	75M51328-2	6000	E -S	GLOBE ,INLINE,METERING,VAC,P	13X13	3.93	S1S1130200				.9 CV	11	0 1
ROBBINS	SSKG375B-6C-768-12	75M51328-2	6000	E -S	GLOBE ,INLINE,METERING,VAC,P	19X19	3.93	S1S1130600				1.2 CV	6	0 1
ROBBINS	SSNA375A-6C-768	75M01305-2	6000	ABC-S	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.62	S1S1140200				1.0 CV	14	0 1
ROBBINS	SSNG375A-6C-768	75M01720-6	6000	ABC-S	GLOBE ,INLINE,METERING,VAC,P	19X19	3.93	S1S1140200				.9 CV	9	10 1
ROBBINS	SSNG375A-6T-768	75M01720-6	6000	ABC-S	GLOBE ,INLINE,METERING,VAC,P	13X13	3.93	S1S1140200				.9 CV	2	0 1
ROBBINS	T-180-6C-768	75M08876	6000	BX -S	GLOBE ,3-PORT,METERING,VAC,P	19X19	2.12	S1S1130200				.3 CV	8	0 1
ROBBINS	T-180-6C-787	75M51327	6000	E -S	GLOBE ,3-PORT,METERING,VAC,P	19X19	2.12	S1S1130200				.3 CV	31	0 1
ROBBINS	T-180-768	75M51327	6000	E -S	GLOBE ,3-PORT,METERING,VAC,P	13X13	2.12	S1S1130200				.3 CV	1	0 1
ROBBINS	T180-6C-787	75M51327	6000	E -S	GLOBE ,3-PORT,METERING,VAC,P	19X19	2.12	S1S1130200				.3 CV	4	0 1
TESCOM	1881-5066	75M25395-1-5-2	6000	ABC-S	GLOBE ,ANGLE ,SHUTOFF , ,		.00					.00	9	0 1

CLASS:MANUAL
SIZE: 0.38 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL SEAL	VALVE MATL CHTR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.38INCH (CONTD)														
TESCOM	30-1101-106		10000	ST -V	GLOBE ,INLINE,SHUTOFF ,	,P	33X33	2.23	S1S3140602				.3 CV	6	0 1
TESCOM	30-1111-106-002		10000	ST -V	GLOBE ,INLINE,METERING,	,P	33X33	2.23	S1S3140602				.3 CV	2	0 1
VACCO	MA05T-403		500	ST -V	GLOBE ,ANGLE ,SHUTOFF ,E-B	,P	13X13	1.44	S1S1121200				.00	2	0 1
VACCO	NVA-6P-462-2G	75M25447-1	6000	BC -V	NEEDLE ,ANGLE ,METERING,	,P	13X13	1.38	S1S1140212				1.2 CV	2	2 1
VACCO	NVA-6P-462-2G	10428553	6000	BC -V	NEEDLE ,ANGLE ,METERING,	,P	13X13	1.38	S1S1140212				1.2 CV	2	2 1
WHITEY	1RM6-316		3000	ST -V	NEEDLE ,INLINE,FLOW REG,	,P	09X09	2.13	S1S1S11200				.7 CV	2	0 2
WHITEY	1VM4-S6		3000	ST -V	NEEDLE ,INLINE,FLOW REG,	,P	09X54	2.44	S1S1S11200				.7 CV	2	0 2
	CLASS:MANUAL SIZE: 0.50 INCH														
ALLOY-S	30308		1500	R -V	BALL ,INLINE, , ,		10X10	3.25	S1S11212C0				.38 OD	10	0 2
ANDGRWD	HIV-4B	75M25560-1	5000		PLUG ,INLINE, , ,N		93X93	3.00	S1S1130214				.00	6	0 3
ANDGRWD	HIVP-4T		5000		PLUG ,INLINE, , ,P		13X13	3.00	S1S1130214				.00	2	0 1
APCO	5063X1010		6000	BC -V	GLOBE ,INLINE,METERING,	,P	68X68	3.00	S1S1130212				.3 CV	6	11 1
APCO	5071-1010-4	75M17763-HGLV-27		CO -S	, , , ,			.00					.00	*	*
APCO	5071BK-08T		6000	ST -V	GLOBE ,INLINE,SHUTOFF ,	,P	13X13	2.50	S1S1131200				1.2 CV	6	0 1
APCO	5071CKXC8P	75MC5752-HGLV-16	6000	H -S	GLOBE ,INLINE,SHUTOFF ,CRY	,P	10X10	2.50	S1S1131200				1.2 CV	2	0 2
	CLASS:MANUAL SIZE: 0.50 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT MAT'L	SEAL	OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.50INCH (CONTD)														
APCO	5072BKX08T		6000	GST-V	GLOBE ,INLINE,SHUTOFF ,CRY,P	13X13	3.50	S1S1131200					3.8 CV	1	0 1
APCO	5072X1004-2	75M05871-PGLV-9	6000	BC -S	GLOBE ,INLINE,SHUTOFF , ,P	13X13	6.84	S1S1131200					3.8 CV	48	5 1
APCO	5072X1004-2	75M05871-PGLV-17	6000	BCD-S	GLOBE ,INLINE,SHUTOFF , ,P	13X13	6.84	S1S1131200					3.8 CV	3	6 1
AUTOCLV	20-7852-1	75M51315-3	6000	ABC-S	NEEDLE ,OFFSET, , ,P	19X19	2.70	S1S1S11200					.31 OD	17	5 1
BASTIAN	2554AC		400	EBO-V	GLOBE ,INLINE,SHUTOFF , ,N	10X10	3.10	B600B61700					.69 OD	5	0 2
BASTIAN	9500A		3000	S -V	GLOBE ,INLINE,SHUTOFF , ,N	10X10	3.30	S000S01200					.00	12	0
CALMEC	C-188-B-1 (.50)	75M51315-3	6000	ABC-S	GLOBE ,INLINE,SHUTOFF , ,	19X19	.00	S1S1131200					.50 OD	1	0 1
CONTROL	MV1008T-P-HL	11M00795-3	6000	BX -S	GLOBE ,INLINE,SHUTOFF ,VAC,P	13X13	2.50	S1S1121200					1.8 CV	5	0 1
CONTROL	MV6008T-P	75M17761-LNV-2	6000	FG -S	GLOBE ,INLINE,SHUTOFF ,E-B,P	13X13	2.50	S1S1121200					1.8 CV	1	0 1
CONTROL	MV6008T-P	11M00808-7	6000	BX -S	GLOBE ,INLINE,SHUTOFF ,E-B,P	13X13	2.50	S1S1121200					1.8 CV	1	0 1
CRANE	1-1.0		200	R -V	GLOBE ,INLINE, , ,		.00						.00	1	0 2
CRANE	1/2-B-98728-8	75M51163-3	1000	R -S	BALL ,INLINE,SHUTOFF , ,P	19X19	2.88	S1S1120600					.00	1	0 1
CRANE	1¼ 1/2P	75M15329-FGLV-1	300	YLM-S	GLOBE ,INLINE,FLOW REG, ,N	10X10	2.69	B2S1B21700					.00	1	0 2
CRANE	2005 400		400	R -V	GATE ,INLINE, , ,		.00						.00	1	0
CRANE	2182 (.50)		200	R -V	BALL ,INLINE,SHUTOFF , ,N	76X76	2.56	B1B1B10200					.44 OD	6	0 3

CLASS:MANUAL
SIZE: 0.50 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT MATL	SHAFT MATL	O RING MATL	FLOW FACTOR	P/N TOT	M/R UCR TOT	M/R *
	SIZE: 0.50INCH (CONTD)															
CRANE	424 (1.00)		400	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	2.56	B	B	S	21700		.00	6	0	2
CRANE	428-UB (0.50)		200	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	2.12	B	2B	2B	21700		.00	2	0	2
CRYOVAC	V-1060-050		6000	FGH-V	GLOBE ,INLINE,FLOW REG,J/C ,N	88X88	8.00	S	1S	1S	10000		.00	8	0	3
DRAGON	P10F-0-3-8-T		10000	R -V	NEEDLE ,INLINE,SHUTOFF , ,P	13X13	2.50	S	1S	1S	11200		.27 OD	12	0	1
DRAGON	P10M-0-3-8-T		6000	R -V	NEEDLE ,INLINE,SHUTOFF , ,P	13X13	2.50	S	1S	1S	11200		.28 OD	4	2	1
DRAGON	P10M-0-5-7-T		6000	R -V	NEEDLE ,INLINE,SHUTOFF , ,P	10X10	2.50	S	1S	1S	11200		.28 OD	5	0	4
DRAGON	P12F-0-3-8-KT		12000	R -V	NEEDLE ,INLINE,SHUTOFF , ,P	13X13	2.50	S	1S	113	1200		.27 OD	6	0	1
DRAGON	10F-0-1-7		10000	R -V	NEEDLE ,INLINE,SHUTOFF , ,N	10X10	2.50	C	1S	1C	11700		.27 OD	6	0	2
DRAGON	10M-0-0-7-T		6000	R -V	NEEDLE ,INLINE,SHUTOFF , ,N	10X10	2.50	B	0S	1B	01200		.28 OD	1	0	2
DRAGON	10M-0-3-8-T		6000	R -V	NEEDLE ,INLINE,SHUTOFF , ,N	13X13	2.50	S	1S	1S	11200		.28 OD	1	0	1
DRAGON	816-3-3-8-TT	75M05432-FNV-3	1500	Y -S	NEEDLE ,INLINE,SHUTOFF , ,P	14X14	3.00	S	1S	112	1200		.31 OD	3	0	1
DRAGON	818-0-1-7-KT		6000	ST -V	NEEDLE ,INLINE,SHUTOFF , ,P	10X10	3.00	C	1S	113	1200		.31 OD	2	0	2
DRAGON	818-0-3-7-KT		6000	ST -V	NEEDLE ,INLINE,SHUTOFF , ,P	10X10	3.00	S	1S	113	1200		.31 OD	2	0	2
DRAGON	818-0-3-8-KT		6000	ST -V	NEEDLE ,INLINE,SHUTOFF , ,P	13X13	3.00	S	1S	113	1200		.31 OD	2	0	1
DRAGON	818-0-3-8-TR		1500	ST -V	NEEDLE ,INLINE,SHUTOFF , ,P	13X13	3.00	S	1S	112	0200		.31 OD	1	0	1
DRAGON	818-0-5-7-KV		6000	ST -V	NEEDLE ,INLINE,SHUTOFF , ,P	10X10	3.00	S	1S	113	0600		.31 OD	1	0	2

CLASS:MANUAL
SIZE: 0.50 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	MATL TRIM	SEAT	OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.50INCH (CONTD)													
DRAGON	818-0-5-8-KV		6000	ST -V	NEEDLE ,INLINE,SHUTOFF ,	,P 13X13	3.00	S1S1130600				.31 OD	5	0 1
DRAGON	818-0-5-8-TT		1500	ST -V	NEEDLE ,INLINE,SHUTOFF ,	,P 13X13	3.00	S1S1121200				.31 OD	1	0 1
DRAGON	818-7-5-8-KT		6000	ST -V	NEEDLE ,ANGLE ,SHUTOFF ,	,P 13X13	1.50	S1S1131200				.31 OD	1	1 1
DRAGON	818-7-5-8-KV		6000	ST -V	NEEDLE ,ANGLE ,SHUTOFF ,	,P 13X13	1.50	S1S1130600				.31 OD	1	0 1
EFCO	PM22M-6050-316-T-MC240	75M51700-3	1000	ABC-S	BALL ,INLINE,SHUTOFF ,	,P 19X19	5.88	S1S1020200				.00	13	1 1
FLODYNE	5A10 (MODIFIED)	75M18527	750	AB -S	BALL ,INLINE,SHUTOFF ,	,	.00					.00	1	0 1
FLODYNE	5A11	75M51077-3	3000	9CX-S	BALL ,INLINE,SHUTOFF ,	,P 19X19	3.38	S1S1120200				.50 OD	1	1 1
FLOMATC	A-610				, , ,	,	.00					.00	1	2
FLOMATC	4420-19F1MH				, , ,	,	.00					.00	1	8
FUTR-CR	30408S	75M50161-5	6000	ABC-S	GLOBE ,INLINE,SHUTOFF ,	,P 13X13	3.00	S1S1S10200				.40 OD	5	1 1
GROVE	10909K (.50)		3000	B -S	GLOBE ,OFFSET,SHUTOFF ,	,P 13X13	2.50	S1S1S10000				.00	4	1 1
GROVE	10983KP4A	75M17761-LGLV-5	6000	B -S	NEEDLE ,INLINE,SHUTOFF ,	,P 10X10	2.50	S1S1S11200				.00	1	0 2
GROVE	10983KP4A		6000	R -V	NEEDLE ,INLINE,SHUTOFF ,	,P 10X10	2.50	S1S1S11200				.00	3	0 2
HAMMOND	FIG 602		200	R -V	GATE ,INLINE,SHUTOFF ,	,N 10X10	1.94	B2B2B21900				.7 CV	1	0 2
HAMMOND	FIG 606 (.50)		200	R -V	GATE ,INLINE,SHUTOFF ,	,N 10X10	1.81	B2B2B21900				.7 CV	20	0 2
HILLS	F602S6T (0.50)	75M17753-HBV-1		B -S	BALL , , ,	,	.00					.00	*	*

CLASS:MANUAL
SIZE: 0.50 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL ACTR	FLOW FACTOR	P/N TOT	M/R UCR* TOT*
	SIZE: 0.50INCH (CONTD)													
HILLS	1/2-F602-BR-B		600	R -V BALL	,INLINE,SHUTOFF , ,N	10X10	2.38	B1B1020200				.44 OD	16	0 2
HILLS	1/2-F602-BR-T		600	R -V BALL	,INLINE,SHUTOFF , ,N	10X10	2.38	B1B1121200				.44 OD	13	0 2
HILLS	1/2-F602-S6-T		600	R -V BALL	,INLINE,SHUTOFF , ,N	10X10	2.38	S1S1121200				.44 OD	9	0 2
HILLS	1/2-S302-S6-T		300	R -V BALL	,INLINE,SHUTOFF , ,N	10X10	3.69	S1S1121200				.81 OD	15	0 2
HILLS	2-F602-S6-T		600	R -V BALL	,INLINE,SHUTOFF , ,N	10X10	2.38	S1S1121200				1.50 OD	3	0 2
IMPEAST	100-HD		100	R -V PLUG	,INLINE,SHUTOFF ,VAC,P	31X31	2.63	B6B6B61700				3.3 CV	44	0 1
JAMSBRY	A-11-BB (.50)		600	R -V BALL	,INLINE,SHUTOFF , ,N	10X10	3.41	B1K1020200				.44 OD	8	0 2
JAMSBRY	A-11-TT (.50)		600	R -V BALL	,INLINE,SHUTOFF , ,N	10X10	3.41	B1K1121200				.44 OD	2	0 2
JAMSBRY	A-22-TT (.50)		2000	R -V BALL	,INLINE,SHUTOFF , ,N	10X10	3.41	C1S1121200				.44 OD	2	0 2
JAMSBRY	A-22-36-TT (.50)		2000	R -V BALL	,INLINE,SHUTOFF , ,N	10X10	3.41	C1S1121200				.44 OD	2	0 2
JAMSBRY	A-36-TT (.50)		2000	R -V BALL	,INLINE,SHUTOFF , ,N	10X10	3.41	S1S1121200				.44 OD	40	1 2
JAMSBRY	D-150F-22-36-TT (.50)		275	R -V BALL	,INLINE,SHUTOFF , ,N	61X61	4.25	C1S1121200				.44 OD	2	0 1
KENNEDY	FIG 372 (.50)		400	R -V GATE	,INLINE,SHUTOFF , ,N	10X10	2.03	B3B3B31900				.00	31	0 2
KENNEDY	FIG 540 (.50)		600	R -V GATE	,INLINE,SHUTOFF , ,N	10X10	2.38	B3B3B31900				.00	12	0
MAROTTA	229714 MOD HVA8D	75M51064-2	6000	ABC-S GLOBE	,INLINE, , ,P	19X19	3.62	S1S1140200				1.3 CV	35	15 1
MARSHAL	201 (.50)			RX -V NEEDLE	,INLINE,FLOW REG, ,N	10X10	2.88	S2S2S20000				.28 OD	4	0 2

CLASS:MANUAL
SIZE: 0.50 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL OTH	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.50INCH (CONTD)													
MUELLER	M-15103		200	R -V	GLOBE ,INLINE,SHUTOFF , ,N	10X10	1.94	B	1	B	78119	.00	2	0 2
MUELLER	M-15137		200	R -V	GLOBE ,INLINE,SHUTOFF , ,N	10X10	2.25	B	1	B	10200	.00	3	0 2
NIBCO	111		200	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	1.94	B	2	B	21900	11.3 CV	2	0 2
NIBCO	221		200	R -V	GLOBE ,INLINE,SHUTOFF , ,N	10X10	2.56	B	2	B	21900	4.3 CV	1	0 2
PACIFIC	BR-225 MOD 181-10(.50)		1000	R -V	BALL , , , ,		.00					.00	1	0 2
PACIFIC	BR-225-P5 (.50)		1500	R -V	BALL ,INLINE,SHUTOFF , ,N	10X10	3.38	B	2	S	11212	.44 OD	16	0 2
PACIFIC	S-2359-F6-12TASA(0.50)	75M17761-LGV-12	300	FG -S	GATE , , , ,		.00					.00	*	*
PACIFIC	S-2395-F6-12	75M17761-LGV-3	300	FG -S	GATE , , , ,		.00					.00	*	*
POWELL	FIG 70-186KDSE	75M17763-HGLV-18		HCO-S	, , , ,		.00					.00	*	*
POWELL	48422 (0.50)	75M05752-HGLV-11	275	D -S	GLOBE ,INLINE,SHUTOFF ,E-B,N	10X10	.00	S	1	S	11312	2.8 CV	10	0 2
REPUBLC	154-8SSP	75M06582-8	10000	X -S	NEEDLE ,INLINE,FLOW REG, ,P	13X13	.00	S	1	S	11200	.20 OD	1	0 1
ROBBINS	A375B-8T	75M15329-FAV-1	6000	YLM-S	GLOBE ,ANGLE ,METERING,VAC,P	10X10	1.62	S	1	S	11302	1.3 CV	4	0 2
ROBBINS	A414A-88-768		12000	STK-V	GLOBE ,INLINE,SHUTOFF ,VAC,P	33X33	3.44	S	1	S	11202	3.0 CV	2	1 1
ROBBINS	SSKA500A-8C-768	75MC8413-3	6000	BX -S	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.62	S	1	S	11302	1.0 CV	34	10 1
ROBBINS	SSKG500A-8C-768	75MC8414-3	6000	STK-V	GLOBE ,INLINE,METERING,VAC,P	19X19	3.93	S	1	S	11302	.9 CV	5	0 1
ROBBINS	SSKG500A-8C-768-12	75M51328-3	6000	E -S	GLOBE ,INLINE,METERING,VAC,P	19X19	3.93	S	1	S	11306	.9 CV	61	1 1

CLASS:MANUAL
SIZE: 0.50 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL ACTR	FLOW FACTOR	P/N TOT	M/R UCR* TOT*
	SIZE: 0.50INCH (CONTD)													
ROBBINS	SSNA500A-8C-768	75MD1305-3	6000	ABC-S	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.62	S1S1140200				1.0 CV	14	0 1
ROBBINS	SSNG500A-8C-768	75MD172C-8	6000	ABC-S	GLOBE ,INLINE,METERING,VAC,P	19X19	3.93	S1S1140200				.9 CV	3	0 1
ROBBINS	SSTA375B-8C-768		6000	STK-V	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.62	S1S1120200				1.3 CV	1	0 1
ROBBINS	SSTA375B-8T-765		6000	STK-V	GLOBE ,ANGLE ,METERING,VAC,P	13X13	1.62	S1S1120600				1.3 CV	1	0 1
ROBBINS	SSTG375A-8C-768		6000	STK-V	GLOBE ,INLINE,METERING,VAC,P	19X19	3.93	S1S1120200				.9 CV	1	0 1
ROBBINS	SSTG375B-8T-766		6000	STK-V	GLOBE ,INLINE,METERING,VAC,P	13X13	3.93	S1S1120800				1.2 CV	1	0 1
STOCKHM	FIG 8-14 (0.50)		200	R -V	GLOBE ,INLINE, , ,	76X76	2.75	B282201987				.00	1	0 3
SUPEROR	605-8D 1/2MPTX1/2FLARE	75M15816-PAV-1		Z -S	, , , ,		.00					.00	8	0
SUPEROR	605-8D 1/2MPTX1/2FLARE	75M04406-PAV-1		Z -S	, , , ,		.00					.00	8	0
TESCOM	30-1201-108-040	75M51365	10000	STK-V	GLOBE ,OFFSET,SHUTOFF ,VAC,P	33X33	3.26	S1S1130212				8.0 CV	2	0 1
TESCOM	30-1201-108-040		10000	STK-V	GLOBE ,OFFSET,SHUTOFF ,VAC,P	33X33	3.26	S1S1130212				8.0 CV	3	0 1
TESCOM	30-1300-308		10000	ST -V	GLOBE ,ANGLE ,SHUTOFF , ,P	19X19	1.28	S1S1140212				2.3 CV	7	0 1
TESCOM	30-1301-108		10000	ST -V	GLOBE ,INLINE,SHUTOFF ,VAC,P	33X33	3.03	S1S1141202				1.5 CV	1	4 1
TESCOM	30-1301-108	75M51365	10000	ST -V	GLOBE ,INLINE,SHUTOFF ,VAC,P	33X33	3.03	S1S1141212				1.5 CV	17	0 1
TESCOM	30-1301-108-002	75M51365	10000	ST -V	GLOBE ,INLINE,SHUTOFF , ,P	33X33	3.03	S1S1140212				1.5 CV	2	0 1
TESCOM	30-1301-108-045	75M51365	10000	ST -V	GLOBE ,INLINE,SHUTOFF , ,P	33X33	3.03	S1S1140212				1.5 CV	2	0 1

CLASS:MANUAL
SIZE: 0.50 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL SEAT	VALVE MATL ACTUATOR	FLOW FACTOR	P/N TOT	M/R UCR	M/R TOT
	SIZE: 0.50INCH (CONTD)													
TESCOM	30-1301-108E	75M51365	10000	ST -V	GLOBE ,INLINE,SHUTOFF ,	,P	33X33	3.03	S1S1140212		1.5 CV	3	0	1
TESCOM	30-1301-208		10000	ST -V	GLOBE ,INLINE,SHUTOFF ,	,P	33X33	3.03	S1S1140212		1.5 CV	1	0	1
TESCOM	30-1301-308	75M51355	10000	ST -V	GLOBE ,INLINE,SHUTOFF ,	,P	13X13	3.03	S1S1140212		1.5 CV	5	0	1
TESCOM	30-1301-308F		10000	ST -V	GLOBE ,INLINE,SHUTOFF ,	,P	13X13	3.03	S1S1140212		1.5 CV	4	0	1
TESCOM	30-1301-908-022		10000	ST -V	GLOBE ,INLINE,SHUTOFF ,VAC	,P	50X50	3.03	S1S1141202		1.5 CV	6	0	1
TESCOM	30-1301-908-023	75M25395-3-9-2	10000	ABC-S	GLOBE ,INLINE,SHUTOFF ,VAC	,P	50X50	3.03	S1S1141202		1.5 CV	2	0	1
TESCOM	30-1310-308		10000	ST -V	GLOBE ,ANGLE ,METERING,	,P	13X13	1.28	S1S1140212		2.3 CV	2	0	1
VACCO	MA-6P-X463-2G	10428534	6000	BC -V	GLOBE ,ANGLE ,SHUTOFF ,	,N	68X68	3.25	S1S1130612		.9 CV	24	1	1
VACCO	MA-6P-X463-2G	75M25448-1	6000	BC -V	GLOBE ,ANGLE ,SHUTOFF ,	,N	68X68	3.25	S1S1130612		.9 CV	24	1	1
WORCESR	1FX411T		1000	ST -V	NEEDLE ,INLINE,SHUTOFF ,	,N	10X10	2.56	B1B1121200		8.0 CV	4	0	2
WORCESR	4118 SE		1000	STK-V	BALL ,INLINE,SHUTOFF ,	,N	10X10	2.56	B1B1020200		8.0 CV	2	0	2
WORCESR	455T SE		1000	STK-V	BALL ,INLINE,SHUTOFF ,	,N	10X10	2.56	S1S1121200		8.0 CV	2	0	2
WORCESR	466T SE		1000	STK-V	BALL ,INLINE,SHUTOFF ,	,N	10X10	2.56	S1S1121200		8.0 CV	4	0	2
	CLASS:MANUAL SIZE: 0.56 INCH													
AMINCO	44-11315		20000		NEEDLE ,OFFSET, ,	,	46X46	4.13	S1S2S1125 2		.31 OD	2	1	1
	CLASS:MANUAL SIZE: 0.56 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL: BODY	SEAT MATL	STEM MATL	OTHER MATL	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.56INCH (CONTD)													
AMINCO	44-13114-A		30000		NEEDLE,OFFSET, , ,	46X46	4.13	S1S2S112S1				.13 OD	1	0 1
AUTOCLV	15SV-9071B		15000	FGH-V	GLOBE ,OFFSET, ,CRY,P	50X50	2.50	S1S1S11200				.31 OD	4	0 1
AUTOCLV	15SV-9072	75M25556-1	15000	FGH-V	GLOBE ,ANGLE , ,CRY,P	50X50	2.50	S1S1S11200				.00	3	1
AUTOCLV	15SV-9072	75M25050	15000	FGH-V	GLOBE ,ANGLE , ,CRY,P	50X50	2.50	S1S1S11200				.00	3	1
AUTOCLV	15SV-9072B		15000	FGH-V	GLOBE ,ANGLE , ,CRY,P	50X50	2.50	S1S1S11200				.31 OD	3	0 1
AUTOCLV	15SV-9081B		15000	FGH-V	NEEDLE ,OFFSET,METERING,CRY,P	50X50	2.50	S1S1S11200				.31 OD	1	0 1
AUTOCLV	15SV-9082B		15000	FGH-V	NEEDLE ,ANGLE ,METERING,CRY,P	50X50	2.50	S1S1S11200				.31 OD		0 1
AUTOCLV	20-7164-2	75M05871-PAV-2	6000	BC -S	GLOBE ,ANGLE ,SHUTOFF , ,	46X46	.00	S1S1S11200				.00	*	* 1
AUTOCLV	20-7173-2	75M05871-PAV-2	6000	BC -S	GLOBE ,ANGLE ,SHUTOFF ,CRY,P	46X46	.00	S1S1S11200				.31 OD	2	2 1
PAULCHM	PMV-1009A		12000	K -V	GLOBE ,INLINE,FLOW REG,VAC,N	46X46	2.50	S1S112x200				1.8 CV	1	1 1
TESCOM	5354-4096	75M25395-1-7-2	6000	ABC-S	GLOBE , ,SHUTOFF , ,		.00					.00	2	0 1
VACCO	NV-6P-403-2G-916	75M25574-1	600	BC -V	GLOBE ,INLINE,SHUTOFF , ,N	46X46	7.00	S1S1140312				.9 CV	2	0 1
	CLASS:MANUAL SIZE: 0.63 INCH													
TEMESCL	01-1130-006		15	AK -V	GLOBE ,ANGLE ,SHUTOFF ,VAC,	76X76	.00	B000000000				.00	6	0 3
	CLASS:MANUAL SIZE: 0.75 INCH													
AIR-RED	14-1602 NEW P/N14-5278	75M51396	2400	3 -S	GLOBE ,ANGLE ,SHUTOFF , ,N	11X12	.00					.00	1	0 2
	CLASS:MANUAL SIZE: 0.75 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	BONNET	STEM	SEAT	O RING	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.75INCH (CONTD)														
APCO	5072B-12T		6000	ST -V	GLOBE ,INLINE,SHUTOFF , ,P	13X13	3.75	S1S1001200					3.8 CV	30	3 1
APCO	5072CK-12T		6000	ST -V	GLOBE ,INLINE,SHUTOFF , ,P	13X13	3.75	S1S1131200					3.8 CV	2	0 3
APCO	5072X1004-1	75M05871-PGLV-2	6000	BC -S	GLOBE ,INLINE,SHUTOFF , ,P	68X68	6.84	S1S1131200					3.8 CV	14	11 1
APCO	5072X1004-1	75M25562-1	6000	BC -V	GLOBE ,INLINE,SHUTOFF , ,P	68X68	6.84	S1S1131200					3.8 CV	14	11 1
APCO	5072X1004-13		6000	C -V	GLOBE ,INLINE,SHUTOFF , ,P	68X68	6.84	S1S1210253					3.8 CV	1	1 1
APCO	5072X1004-3	75M09618-PGLV-3	6000	D -S	GLOBE ,INLINE,SHUTOFF , ,P	68X68	6.84	S1S1130212					3.8 CV	15	14 1
APCO	5072X1004-3	75M05871-PGLV-13	6000	B -S	GLOBE ,INLINE,SHUTOFF , ,P	68X68	6.84	S1S1130212					3.8 CV	15	14
APCO	5072X1004-3	75M09220-PGLV-5	6000	D -S	GLOBE ,INLINE,SHUTOFF , ,P	68X68	6.84	S1S1131212					3.8 CV	4	2 1
AUTOCLV	15SV-12071		15000	FGH-V	GLOBE ,OFFSET, ,CRY,P	50X50	3.00	S1S1S11200					.44 OD	4	0 1
AUTOCLV	15SV-12071B		15000	FGH-V	GLOBE ,OFFSET, ,CRY,P	50X50	3.00	S1S1S11200					.44 OD		0 1
AUTOCLV	15SV-12072B		15000	FGH-V	GLOBE ,ANGLE , ,CRY,P	50X50	3.00	S1S1S11200					.44 OD		0 1
BASTIAN	2554AAC		400	EBO-V	GLOBE ,INLINE,SHUTOFF , ,N	10X10	3.10	B600861700					.69 OD	11	0 2
CALMEC	C-188-B-1 (.75)	75M51352-1	6000	ABC-S	GLOBE ,INLINE,SHUTOFF , ,	19X19	5.50	S1S1131200					.75 OD	9	1 1
CALMEC	C-188-B-2	75M51352-2	6000	ABC-S	GLOBE ,INLINE,SHUTOFF , ,	68X68	5.50	S1S1131200					.75 OD	1	1 1
CMBPUMP	380-4		6000	R -V	GLOBE ,INLINE,SHUTOFF , ,N	10X10	4.63	B7S1M11700					.00	2	0 2
CONTROL	ES6012T-P(ES6112T-P)		6000	FGH-V	GLOBE ,INLINE,SHUTOFF ,E-B,P	13X13	3.50	S1S1121200					5.6 CV	1	0 1

CLASS:MANUAL
SIZE: 0.75 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL: BODY	TRIM	SEAT	STEM	OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
SIZE: 0.75INCH (CONTD)															
CRANE	117		250	R -V	GLOBE ,ANGLE ,SHUTOFF ,	,N	10X09	4.00	B2B2B21700				.00	2	0 2
CRANE	212P (0.75)		400	R -V	PLUG ,INLINE,FLOW REG,	,N	10X10	3.19	B3B3S21700				.00	10	0 2
CRANE	2182 (.75)		200	R -V	BALL ,INLINE,SHUTOFF ,	,N	76X76	3.00	B1B1B10200				.44 OD	16	0 3
CRANE	3/4-B-98728-B	75M09618-PBV-1	1000	BC -S	BALL ,INLINE,SHUTOFF ,	,P	19X19	3.31	S1S1120600				.00	3	1 1
CRANE	3/4-B-98728-B	75M51163-4	1000	R -S	BALL ,INLINE,SHUTOFF ,	,P	19X19	3.31	S1S1120600				.00	8	0 1
CRANE	3/4-B-98728-B	75M15C44-PBV-1	1000	BC -S	BALL ,INLINE,SHUTOFF ,	,P	19X19	3.31	S1S1120600				.00	8	0 1
CRANE	428-UB (.75)		200	R -V	GATE ,INLINE,SHUTOFF ,	,N	10X10	2.25	B2B2B21700				.00	3	0 2
CRYOVAC	V-1015-1 (V-1060-C75)		6000	FGH-V	GLOBE ,INLINE,FLOW REG,J/C	,N	88X88	8.00	S1S1S10000				.00	5	0 3
DRAGON	P12F-0-3-12-KT		12000	R -V	NEEDLE ,ANGLE ,SHUTOFF ,	,P	13X13	3.00	S1S1131200				.34 OD	3	0 1
DRAGON	10M-0-5-11-T		6000	R -V	NEEDLE ,INLINE,SHUTOFF ,	,N	10X10	3.00	S1S1S11200				.34 OD	2	0 2
DRAGON	818-3-5-12-KV		6000	ST -V	NEEDLE ,INLINE,SHUTOFF ,	,P	14X13	4.00	S1S1130600				.56 OD	2	0 1
DRAGON	818-7-5-12-KR		6000	ST -V	NEEDLE ,ANGLE ,SHUTOFF ,	,P	13X13	2.00	S1S1130200				.56 OD	5	0 1
EFCO	PM22M-6075-31S-T-MC240	75M51700-4	1000	ABC-S	BALL ,INLINE,SHUTOFF ,	,P	19X19	6.75	S1S1020200				.00	1	0 1
FUTR-CR	30412S	75M50161-7	6000	ABC-S	GLOBE ,INLINE,SHUTOFF ,	,P	13X13	4.00	S1S1S10200				.60 OD	2	3 1
HILLS	3/4-S302-S6-T		300	R -V	BALL ,INLINE,SHUTOFF ,	,N	10X10	3.69	S1S1121200				.81 OD	7	0 2
J,P&C	228164-1	75M51155-1	6000	ABC-S	GLOBE ,OFFSET,SHUTOFF ,	,P	68X68	9.83	S1S1140200				.61 OD	1	0 1

CLASS:MANUAL
SIZE: 0.75 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL: BODY	BRIM	SEAT	STEM	OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
SIZE: 0.75INCH (CONTD)															
JAMSBRY	A-22-36-TT (.75)		2000	R -V	BALL ,INLINE,SHUTOFF ,	,N	10X10	3.84	C	S	S	1	1	2 00	1 0 2
KENNEDY	FIG 517 (.75)		600	R -V	GATE ,INLINE,SHUTOFF ,	,N	10X10	2.75	B	B	B	3	1	9 00	12 0
KENNEDY	FIG 540 (.75)		600	R -V	GATE ,INLINE,SHUTOFF ,	,N	10X10	2.75	B	B	B	3	1	9 00	9 0 2
KENNEDY	FIG 66 (.75)		175	R -V	GATE ,INLINE,SHUTOFF ,	,N	10X10	2.50	B	1	B	1	1	9 00	2 0 2
MAROTTA	227974-3 MOD SPV29A	75M51053-2	6000	ABC-S	GLOBE ,OFFSET,METERING,	,P	19X19	5.25	S	1	S	1	1	4 0 2 00 EO	3 1 1
MAROTTA	228164-1 MOD SPV29B	75M51155-1	6000	ABC-S	GLOBE ,OFFSET,METERING,	,P	68X68	9.75	S	1	S	1	1	4 0 2 00 EO	9 0 1
MAROTTA	229744 MOD HVA12D	75M51064-1	6000	ABC-S	GLOBE ,INLINE, ,	,P	19X19	3.62	S	1	S	1	1	4 0 2 00 CV	9 2 1
NIBCO	93		300	R -V	GATE ,INLINE,SHUTOFF ,	,N	10X10	2.44	B	2	B	2	1	9 00 CV	2 0 2
PACIFIC	BR-225 MOD 181-10(.75)		1000		BALL , , , ,			.00						.00	2 0 2
PACIFIC	B1-10				GATE , , , ,			.00						.00	10 0 2
POWELL	1837 (.75)		1000	R -V	GLOBE ,INLINE,SHUTOFF ,	,N	61X61	4.63	N	2	N	2	1	9 00	1 1 1
POWELL	48663 (0.75)		400	F -V	GLOBE ,INLINE,SHUTOFF ,E-B	,N	10X10	3.50	S	1	S	1	3	1 2 00	3 0 2
POWELL	70-2714 (0.75)		300	F -V	GATE ,INLINE,SHUTOFF ,E-B	,N	10X10	2.44	B	2	B	2	1	9 00	4 0 2
REPUBLC	154-12SS27P	75MC6582-12	10000	X -S	NEEDLE ,INLINE,FLOW REG,	,P	13X13	.00	S	1	S	1	0	2 00 OD	7 1 1
REPUBLC	209X-12SS	75MC5867-FNV-2	2000	Y -S	GLOBE ,OFFSET,METERING,	,P	27X27	.00	S	1	S	1	1	2 00	5 0 1
REPUBLC	209X-12SS	75MC5432-FNV-2	2000	TY -V	GLOBE ,OFFSET,METERING,	,P	27X27	.00	S	1	S	1	1	2 00	5 0 1

CLASS:MANUAL
SIZE: 0.75 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	SOLAR	OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.75INCH (CONTD)														
REPUBLC	22%-12	75M09569-1	2000	X -S	GLOBE ,OFFSET,SHUTOFF , ,P	27X27	.00	S1S1S11200					.00	1	0 1
ROBBINS	A427A-12C-768	75M08877	6000	BX -S	GLOBE ,ANGLE ,METERING,VAC,P	19X19	1.72	S1S1120200					9.0 CV	4	4 1
STOCKHM	FIG B-14 (0.75)		200	R -V	GLOBE ,INLINE, , ,	76X76	3.94	82B22019B7					.00	5	0 3
STOCKHM	FIG B-62 (0.75)		400	R -V	GLOBE ,INLINE, , ,	10X10	3.25	B3S0021987					.00	1	0 2
TEMESCL	01-1110-007		15	AK -V	GLOBE ,ANGLE ,SHUTOFF ,VAC,	76X76	.00	8000000000					.00	1	0 3
TEMESCL	01-1110-007 MOD 11-4		15	AK -V	GLOBE ,ANGLE ,SHUTOFF ,VAC,	76X76	.00	B000000000					.00	2	0 3
TESCOM	30-1200-512-016E	75M51355-4	6000	STK-V	GLOBE ,ANGLE ,SHUTOFF ,VAC,P	19X19	3.23	S1S1130212					.61 CA	16	1 1
TESCOM	30-1201-112	75M51365-1	10000	ABC-S	GLOBE ,OFFSET,SHUTOFF ,VAC,P	33X33	3.26	S1S1130212					8.0 CV	17	0 1
TESCOM	30-1201-112		10000	STK-V	GLOBE ,OFFSET,SHUTOFF ,VAC,P	33X33	3.26	S1S1130212					8.0 CV	4	1 1
TESCOM	30-1201-312		10000	STK-V	GLOBE ,OFFSET,SHUTOFF ,VAC,P	13X13	3.26	S1S1130212					8.0 CV	3	0 1
TESCOM	30-1201-512-016	75M51355-2	10000	ABC-S	GLOBE ,OFFSET,SHUTOFF ,VAC,P	19X19	3.23	S1S1130212					8.0 CV	1	0 1
TESCOM	30-1201-512-016E		10000	STK-V	GLOBE ,OFFSET,SHUTOFF ,VAC,P	19X19	3.23	S1S1130212					8.0 CV	1	1 1
TESCOM	30-1201-512-016E	75M51355-2	10000	ABC-S	GLOBE ,OFFSET,SHUTOFF ,VAC,P	19X19	3.26	S1S1130212					8.0 CV	3	0 1
VAC-ELE	FR62S	75M17763-HGLV-2		HCD-S	, , , ,		.00						.00	*	*
VACCO	M-6P-X464-2C	75M25443-1	6000	BC -V	GLOBE ,INLINE,FLOW REG, ,N	68X68	8.50	S1S1130612					4.0 CV	20	4 1

CLASS:MANUAL
SIZE: 0.75 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	MATL TRIM	SEAT MAT	SEAT LAR	OTH R	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.75INCH (CONTD)														
	**********														
VACCO	M-6P-X464-2G	10428533	6000	BC -V	GLOBE ,INLINE,FLOW REG, ,N	68X68	8.50	S1S1130612					4.0 CV	20	4 1
VACCO	MA-6P-X464-2G	10428533	6000	BC -V	GLOBE ,ANGLE ,SHUTOFF ,E-B,P	68X68	2.50	S1S1130612					9.0 CV	8	0 1
VACCO	MA-6P-X464-2G	75M25449-1	6000	BC -V	GLOBE ,ANGLE ,SHUTOFF ,E-B,P	13X13	2.50	S1S1130612					9.0 CV	8	0 1
WALWORH	120		400	R -V	NEEDLE ,INLINE,SHUTOFF , ,N	10X10	2.81	B3B3B31900					.00	2	0 2
WALWORH	205		600	R -V	GLOBE ,INLINE,SHUTOFF , ,N	10X10	3.00	B3B3B31900					.00	5	0 2
	**********														
	CLASS:MANUAL														
	SIZE: 1.00 INCH														
	**********														
ANNIN	MOD 651D(1)XXSGR11	75M05871-PGLV-3	6000	F -S	GLOBE ,INLINE,FLOW REG, ,	68X68	.00						.00	22	0 1
APCO	5072BK-16T		6000	ST -V	GLOBE ,INLINE,SHUTOFF , ,P	13X13	4.00	S1S1131200					3.8 CV	2	0 1
APCO	5075BKX16T		6000	GST-V	GLOBE ,ANGLE ,SHUTOFF ,CRY,P	13X13	.00	S1S1131200					4.8 CV	1	0 1
APCO	5075X1005	75M05871-PAV-5	6000	BC -S	GLOBE ,ANGLE ,SHUTOFF , ,P	13X13	.00	S1S1131213					4.8 CV	4	0 1
APCO	5077CKX16T		6000		, , , ,		.00						.00	2	1
AUTOCLV	15SV-16071B		15000	FGH-V	GLOBE ,OFFSET, ,CRY,P	50X50	4.10	S1S1S11200					.00	3	0 1
AUTOCLV	15SV-16072B		15000	FGH-V	GLOBE ,ANGLE , ,CRY,P	50X50	4.10	S1S1S11200					.00	1	0 1
BASTIAN	B-1158		6000	E -V	GLOBE , , , ,		.00						.00	1	0
BASTIAN	951JR		3000	S -V	GLOBE ,INLINE,SHUTOFF , ,N	36X37	5.40	S000S01200					.00	22	0
	**********														
	CLASS:MANUAL														
	SIZE: 1.00 INCH														
	**********														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL ACTR	VALVE MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.00INCH (CONTD)														
BASTIAN	9511R		3000	S -V	GLOBE ,INLINE,SHUTOFF , ,N	36X36	3.30	S000	S01200				.00	8	0 2
CONTROL	ES6016T-P(ES6116T-P)		6000	FGH-V	GLOBE ,INLINE,SHUTOFF ,E-B,P	13X13	3.50	S1S1	12120	0			5.6 CV	1	0 1
CONTROL	MV1116T-P-HL	11M00735-7	6000	BX -S	GLOBE ,INLINE,SHUTOFF ,VAC,P	13X13	3.50	S1S1	12120	0			5.6 CV	4	0 1
CONTROL	MV6016T-P(MV6116T-P)	11M00795-7	6000	BX -S	GLOBE ,INLINE,SHUTOFF ,VAC,P	13X13	3.50	S1S1	12120	0			5.6 CV	5	0 1
CRANE	1		200	R -V	GLOBE ,INLINE,SHUTOFF , ,N	10X10	3.19	B2B2	B2170	0			.00	3	0 2
CRANE	200 (1.00)			R -V	GATE , , , ,N		.00						.00	2	0 2
CRANE	212P (1.00)		400	R -V	PLUG ,INLINE,FLOW REG, ,N	10X10	3.75	B3B3	S2170	0			.00	1	0 2
CRANE	424 (.25)		400	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	3.19	B3B3	S2170	0			.00	2	0 2
CRANE	431		300	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	3.50	B3B3	B3170	0			.00	1	0 2
CRYOVAC	V-1016-1 (V-1060-100)		6000	FGH-V	GLOBE ,INLINE,FLOW REG,J/C,N	88X88	8.75	S1S1	S10000				.00	2	0 3
CRYOVAC	V-1027-1 (V-1060-100)		6000	FGH-V	GLOBE ,INLINE,FLOW REG,J/C,N	88X88	8.75	S1S1	S10000				.00	1	0 3
DURCO	FIG FG	75M25512-1	150	ST -V	PLUG ,3-PORT,FLOW REG, ,N	10X10	4.56	S1S1	12120	0			.00	2	0 2
FLODYNE	10C12L	75M00442	1500	X -S	BALL ,INLINE,SHUTOFF , ,P	13X13	5.50	A1S1	12020	0			.00	7	3 1
FLODYNE	10C12R	75M00497	1500	X -S	BALL ,INLINE,SHUTOFF , ,P	13X13	5.50	A1S1	12020	0			.00	10	2 1
FLODYNE	10F11				, , , ,		.00						.00	1	0
FLOMATC	A-610				, , , ,		.00						.00	1	1

CLASS:MANUAL
SIZE: 1.00 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	SOLE	OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.00INCH (CONTD)														
FLOMATC	DA-610				, , , ,		.00						.00	1	10
FLOMATC	DA0211DWG3197	75M17761-LGLV-8	300	FG -S	Y-GLOBE, , , ,		.00						.00	*	*
FUTR-CR	30416S	75M50151-9	6000	ABC-S	GLOBE ,INLINE,SHUTOFF , ,P	13X13	4.25	S1S1S10200					.80 OD	4	4 1
HAMMOND	FIG 607		200	R -V	GATE ,INLINE, ,VAC,N	76X76	3.00	B2B2B21900					1.1 CV	1	0 3
JAMSBRY	A-36-TT (1.00)		2000	R -V	BALL ,INLINE,SHUTOFF , ,N	10X10	4.47	S1S1121200					.81 OD	1	0 2
JAMSBRY	AT-36-TT (1.00)	75M15329-FBV-3	2000	YLM-S	BALL ,INLINE,SHUTOFF , ,N	13X13	4.47	S1S1121200					.81 OD	9	0 1
KENNEDY	FIG 89 (1.00)	75M25570-1	300	R -V	GLOBE ,INLINE,SHUTOFF , ,N	10X10	3.75	B1B1B11700					.00	4	0 2
LUNKHMR	FIG 2150 (1.00)		300	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	2.81	B2B2B21900					.00	1	1 2
MAROTTA	227974-0 MOD SPV29A	75M51053-1	6000	ABC-V	GLOBE ,OFFSET,METERING, ,P	19X19	5.25	S1S1140200					.81 EO	42	1 1
MAROTTA	228164-2 MOD SPV29B	75M51155-2	6000	ABC-S	GLOBE ,OFFSET,METERING, ,P	68X68	9.75	S1S1140200					.81 EO	4	2 1
MAROTTA	228174-2 MOD SPV296A	75M51156	6000	ABC-S	GLOBE ,OFFSET,METERING, ,P	68X68	9.75	S1S1140200					.81 EO	16	11 1
MAROTTA	228314-21 MOD HVA16A	75M51145	6000	ABC-S	GLOBE ,ANGLE ,METERING, ,P	19X19	.00	S1S1140253					.81 EO	10	1 1
MUELLER	H-15130		200	R -V	GLOBE ,INLINE,SHUTOFF , ,N	79X79	2.09	B1B1B10200					.00	20	0 3
NIBCO	T-113 (1.00)		200	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	2.56	B2B2B21900					38.6 CV	4	0 2
NIBCO	T-173		600	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	3.50	B3B3B31900					.00	1	0 2

CLASS:MANUAL
SIZE: 1.00 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAL	SOFT PART	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.00INCH (CONTD)													
PACIFIC	K-225-P5 (1.00)		1500	R -V	BALL ,INLINE,SHUTOFF , ,N	10X10	4.19	S1S1121200				.75 OD	46	8 2
PACIFIC	S-2195-F6-12T	75M17761-LGV-1	150	FG -S	GATE , , , ,		.00					.00	*	*
PACIFIC	S-2359-F6-12TASA(1.00)	75M17761-LGV-11	300	FG -S	GATE , , , ,		.00					.00	*	*
PACIFIC	S-8551-EB (6-12T)1.00	75M05871-PGV-1	200	F -S	GATE ,INLINE,SHUTOFF ,CRY,N	10X10	3.75	S1S1121200				.00	1	1 2
PACIFIC	1S-8551-EB (6-12T)	75M05869-LGV-7		G -S	, , , ,		.00					.00	*	*
PACIFIC	700-EB-ASA	75M05869-LGLV-4	275	G -S	GLOBE ,INLINE,SHUTOFF ,E-B,N	62X62	5.00	S1S11312C0				.00	2	0 1
POWELL	150		300	R -V	GLOBE ,INLINE,SHUTOFF , ,N	10X10	3.81	B2B2201900				.00	2	0 2
POWELL	48422 (1.00)	75M05752-HGLV-12	275	D -S	GLOBE ,INLINE,SHUTOFF ,E-B,N	62X62	.00	S1S1131200				10.5 CV	14	0 1
POWELL	70-2474KDSE	75M05752-HGLV-32	400	F -S	GLOBE ,INLINE,SHUTOFF ,E-B,N	27X27	3.88	S1A0131200				.00	2	0 1
POWELL	70-2475KD	75M05752-HGLV-13	400	B -S	GLOBE ,INLINE,SHUTOFF ,E-B,N	27X27	3.88	S1S1131200				10.5 CV	22	5 1
POWELL	70-2714 (1.00)	75M25496-1	300	F -V	GATE ,INLINE,SHUTOFF ,E-B,N	10X10	2.75	B2B2B21200				.00	16	0 2
POWELL	70-2714 (1.00)		300	F -V	GATE ,INLINE,SHUTOFF ,E-B,N	79X79	2.75	B2B2B212C0				.00	2	0 3
POWELL	70-375-48635-1	75M17751-LGV-2	300	FG -S	GATE , , , ,		.00					.00	*	*
POWELL	70-375SE	75M25496-1	400	F -V	GATE ,INLINE,SHUTOFF ,E-B,N	10X10	2.94	B3B7B312C0				.00	6	0 2
POWELL	70-376FE	75M25497-1	225	F -V	GATE ,INLINE,SHUTOFF ,E-B,N	61X61	4.13	B3B7B312C0				.00	6	0 1
POWELL	70-376SE	75M25499-1	400	F -V	GATE ,INLINE,SHUTOFF ,E-B,N	10X10	2.94	B3B7B31200				.00	2	0 2

CLASS:MANUAL
SIZE: 1.00 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	SEAL	OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.00INCH (CONTD)														
ROBBINS	G427A-16B-768	75M17761-LGLV-11	6000	G -S	GLOBE		.00						.00		
ROBBINS	G427A-16C-768	75M11558	6000	BX -S	GLOBE	INLINE,METERING,VAC,P	19X19	4.70	S1S1120200				6.0 CV	3	0 1
STOCKHM	FIG B-14 (1.00)		200	R -V	GLOBE	INLINE,	76X76	4.63	B2B22019B7				.00	3	0 3
TESCOM	30-1200-316-019A		10000	STK-V	GLOBE	ANGLE,SHUTOFF,VAC,P	13X13	1.96	S1S1130212				10.0 CV	2	0 1
TESCOM	30-1201-116		10000	STK-V	GLOBE	OFFSET,SHUTOFF,VAC,P	33X33	3.26	S1S1130212				8.0 CV	1	1 1
TESCOM	30-1201-116	75M51365-2	10000	ABC-S	GLOBE	OFFSET,SHUTOFF,VAC,P	33X33	3.26	S1S1130212				8.0 CV	5	0 1
TESCOM	30-1201-116-040	75M51365	10000	STK-V	GLOBE	OFFSET,SHUTOFF,VAC,P	33X33	3.26	S1S1130212				8.0 CV	1	0 1
TESCOM	30-1201-316		10000	STK-V	GLOBE	OFFSET,SHUTOFF,VAC,P	13X13	3.26	S1S1130212				8.0 CV	1	0 1
TESCOM	30-1201-516-016	75M51365-1	10000	ABC-S	GLOBE	OFFSET,SHUTOFF,VAC,P	19X19	3.26	S1S1130212				8.0 CV	19	0 1
TESCOM	30-1201-916-062		10000	STK-V	GLOBE	OFFSET,SHUTOFF,VAC,P	50X50	3.26	S1S1130212				8.0 CV	1	1 1
TESCOM	30-1201-916-0629	75M51365	10000	STK-V	GLOBE	OFFSET,SHUTOFF,VAC,P	50X50	3.26	S1S1130212				8.0 CV	1	0 1
VAC-ELE	FL100S	75M17763-HGLV-8		HCD-S	GLOBE			.00					.00		
VACCO	M-6P-X465-2G	10429532	6000	3C -V	GLOBE	INLINE,FLOW REG, ,N	68X68	8.50	S1S1130612				5.6 CV	5	0 1
VACCO	M-6P-X465-2C	75M25443-2	6000	BC -V	GLOBE	INLINE,FLOW REG, ,N	68X68	8.50	S1S1130612				5.6 CV	5	0 1
WALWORH	11		300	R -V	GATE	INLINE,SHUTOFF, ,N	10X10	2.81	B2B2B21900				76.0 CV	1	0 2
WALWORH	2		200	R -V	GATE	INLINE,SHUTOFF, ,N	10X10	2.81	B2B2B21900				74.0 CV	1	0 2

CLASS:MANUAL
SIZE: 1.00 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	STEM	SEAT	OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.00INCH (CONTD)													
WORCESR	4118 XW		1000	STK-V	BALL ,INLINE,SHUTOFF , ,N	87X87	9.63	B181020200				32.0 CV	2	0 3
WORTHN	6510		6000		GLOBE , , , ,		.00					.00	1	0
	CLASS:MANUAL SIZE: 1.13 INCH													
TEMESCL	01-1110-011		15	AK -V	GLOBE ,ANGLE ,SHUTOFF ,VAC,	76X76	.00	B0000000000				.00	1	0 3
	CLASS:MANUAL SIZE: 1.25 INCH													
ANNIN	MOD 6510(1)XXSGR-1.25	75MC5871-PGLV-11	6000	D -S	GLOBE ,INLINE,FLOW REG, ,	68X68	.00					.00	4	0 1
ANNIN	MOD 6510(1)XXSGR12-1.2	75MC9220-PGLV-6	6000	D -S	GLOBE ,INLINE,FLOW REG, ,	68X69	.00					.00	1	1 1
CRANE	18840		200	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	3.19	S1S1S11700				.00	3	0 2
JAMSBRY	A-36-TT (1.25)		2000	R -V	BALL ,INLINE,SHUTOFF , ,N	10X10	4.44	S1S1121200				1.00 OD	2	0 2
PACIFIC	K-225-E4 (1.25)		600	R -V	BALL ,INLINE,SHUTOFF , ,N	10X10	4.94	S1S1061200				.94 OD	1	0 2
STOCKHM	FIG B-16 (1.25)		200	R -V	GLOBE ,INLINE, , ,	10X10	3.69	B282821987				.00	4	0 2
VACCO	M-6P-X466-26	75M25443-3	6000	BC -V	GLOBE ,INLINE,FLOW REG, ,N	68X68	8.50	S1S1130612				5.6 CV	13	0 1
VACCO	M-6P-X466-26	10428556	6000	BC -V	GLOBE ,INLINE,FLOW REG, ,N	68X68	8.50	S1S1130612				5.6 CV	13	0 1
	CLASS:MANUAL SIZE: 1.25 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	SOFT PART	FLOW FACTOR	P/N TOT	M/R UCR* TOT*
								**	**	**	**			* *
	CLASS:MANUAL SIZE: 1.50 INCH													
ACEVALV	D-250,MOD 250		400	R -V	BALL , , , ,		.00	C000000000				.00	1	0
ACEVALV	R-1430,MOD 480 QCF		175	R -V	BALL , , , ,		.00	C000000000				.00	1	0
ANNIN	MOD G1710EB-6-10KWE	75M05752-HGLV-18	280	H -S	GLOBE ,INLINE,FLOW REG,J/C,	89X89	10.50	S1S1121200				31.0 CV	2	0
ANNIN	MOD 6510(1.5)XXSGR14	75M05871-PGLV-4	6000	3C -S	GLOBE ,INLINE,FLOW REG, ,	68X68	.00					.00	32	1 1
CRANE	1.5-K-1194-G	75M51384-3	750	ABC-S	,INLINE, , ,		.00					.00	1	0 1
CRANE	1.5-K-5589-B	75M51164-1	650	ABC-S	BALL ,INLINE,SHUTOFF , ,P	68X68	10.50	S1S1120600				.00	2	0 1
CRANE	200 (1.50)			R -V	GATE , , , ,		.00					.00	1	0 2
CRYOVAC	V-1018-1 (V-1060-150)		6000	FGH-V	GLOBE ,INLINE,FLOW REG,J/C,N	88X88	10.25	S1S1S10000				.00	2	0 3
DRAGON	631-0-5-24-KV			ST -V	NEEDLE ,INLINE,SHUTOFF , ,P		.00	S1S1130600				.00	2	0
EDWARDS	6628F 316 (1.50)	75M08838	4500	X -S	GLOBE ,INLINE,METERING, ,N	68X68	14.00	S1S1000000				.00	2	0 3
EFCO	PM22M-6150-316-T-MC24C	75M51700-7	1000	ABC-S	BALL ,INLINE,SHUTOFF , ,P	19X19	.00	S1S1020200				.00	3	0 1
GROVE	11134K089B	75M15978-1	6000	ABC-V	GLOBE ,INLINE,SHUTOFF , ,P	19X19	13.00	S1S1131700				1.38 OD	2	0 1
GROVE	1193A088B MOD A-3		6000	ABC-V	GLOBE ,INLINE,SHUTOFF , ,P	13X13	9.50	S1S1131700				1.38 OD	1	0 1
HILLS	1-1/2-S302-CS-T		300	R -V	BALL ,INLINE,SHUTOFF , ,N	10X10	4.75	C1C1121200				.00	3	0 2
HILLS	1-1/2-S302-CS-T-SP#8C		300	R -V	BALL ,INLINE,SHUTOFF ,VAC,N	10X10	4.75	C1C1121200				.00	5	0 2
	CLASS:MANUAL SIZE: 1.50 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	SOLE	OTHR	FLOW FACTOR	P/N TOT	M/R UCR* TOT*
SIZE: 1.50INCH (CONTD)															
JAMSBRY	A-11-33-TT (1.50)		500	R -V	BALL ,INLINE,SHUTOFF , ,N	10X10	4.56	B1S1121200					1.25 OD	4	0 2
KEYSTON	100 (1.50)	75M15214-PBFV-1	150	NQ -S	BUTRFLY,INLINE,SHUTOFF , ,N	62X62	1.63	A3A0030300					.00	2	0 1
LADISH	6270-0107-15	11M00847	200	R -V	Y-GLOBE,INLINE,SHUTOFF , ,N	10X10	5.87	S1S1S11219					.00	1	0 2
LUNKHMR	FIG 123 (1.50)	75M15816-PGLV-7	300	R -S	GLOBE ,INLINE, , ,N	10X10	5.06	B2B7201982					.00	6	0 2
LUNKHMR	FIG 123 (1.50)	75M04406-PGLV-7	300	R -V	GLOBE ,INLINE, , ,N	10X10	5.06	B2B7201982					.00	6	0 2
NIBCO	T-113 (1.50)		200	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	2.88	B2B2B21300					100.0 CV	1	0 2
PACIFIC	K-225-E4 (1.50)		600	R -V	BALL ,INLINE,SHUTOFF , ,N	10X10	5.13	S1S1061200					.00	1	0 2
PACIFIC	S-2550-E3 (6-127ASA)				, , , ,		.00						.00	1	1
PACIFIC	S-8550-EB (ASA)	75M05871-PGV-6	150	F -S	GATE ,INLINE,SHUTOFF ,CRY,N	62X62	6.50	S1S1121200					.00	8	9 1
PACIFIC	S-8550-EB (10-12ASA)	75M17763-HGV-1	200	COH-S	GATE ,INLINE,SHUTOFF ,CRY,N	62X62	6.50	S1S1121200					.00	1	0 1
PACIFIC	S-8551-EB (6-12T)1.50	75M05871-PGV-7	150	B -S	GATE ,INLINE,SHUTOFF ,E-B,N	10X10	4.63	S1S1121200					.00	12	13 2
POWELL	2491	75M05867-PGV-6	300	Y -S	GATE ,INLINE,SHUTOFF , ,N	61X61	6.50	S1B1S11300					.00	7	0 1
VACCO	M-6P-X467-2G	75M25443-5	6000	BC -V	GLOBE ,INLINE,FLOW REG, ,N	68X68	12.00	S1S1130612					13.0 CV	16	3 1
VACCO	M-6P-X467-2G	10428531	6000	BC -S	GLOBE ,INLINE,FLOW REG, ,N	68X68	12.00	S1S1130612					13.0 CV	16	3 1
CLASS:MANUAL SIZE: 1.63 INCH															
SUPEROR	193-15S 1-5/8 ODF	75M15816-PAV-4		Z -S	, , , ,		.00						.00	25	0
CLASS:MANUAL SIZE: 1.63 INCH															

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAL	VALVE MATL ACTH	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.63INCH (CONTD)													
SUPEROR	193-15S 1-5/8 ODF	75M04406-PAV-4		Z -S	, , , ,		.00					.00	25	0
	CLASS:MANUAL SIZE: 2.00 INCH													
ANNIN	MOD 1710-2	75M17763-HGLV-7		HCD-S	, , , ,		.00					.00	*	*
ANNIN	MOD 4510-T (2)160SGR20	75M50306-2	3600	ABC-S	GLOBE ,INLINE,FLOW REG, ,	68X68	.00					.00	9	1 1
ANNIN	MOD 6510(2)XXSGR	75M05871-PGLV-12	6000	D -S	GLOBE ,INLINE,FLOW REG, ,	68X68	.00					.00	12	3 1
ANNIN	MOD 6510(2)XXSGR	75M05871-PGLV-8	6000	BC -S	GLOBE ,INLINE,FLOW REG, ,	68X68	.00					.00	3	0 1
ANNIN	MOD 6510-T (2)XXSGR14	75M50304	6000	ABC-S	GLOBE ,OFFSET,FLOW REG, ,	68X68	.00					.00	9	0 1
C-MARK	2-792-TTC		2000	R -V	BALL ,INLINE,SHUTOFF , ,N	10X10	6.81	S	11	71	7100	180.0 CV	1	0 2
C-MARK	2-792-TTG		2000	R -V	BALL ,INLINE,SHUTOFF , ,N	13X13	6.81	S	11	71	7100	180.0 CV	4	0 1
CONTROL	MV445-32G		10000	FGH-V	GLOBE ,INLINE,SHUTOFF ,CRY,N	68X68	13.50	S	1S	11	2100	30.0 CV	3	0 1
CRANE	428-UB (2.00)		200	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	3.69	B	2B	2B	2100	.00	1	0 2
CRANE	438		200	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	3.69	B	2B	2B	2100	.00	2	0 2
CRANE	465 1/2 (2.00)		200	R -V	GATE ,INLINE,SHUTOFF , ,N	61X61	7.00	F	1B	2B	2100	.00	2	0 1
CRANE	475 1/2 (2.00)		200	R -V	GATE ,INLINE,SHUTOFF , ,N	61X61	7.00	F	1F	1F	1100	.00	2	0 1
CRYOVAC	V-1019-1 (V-1060-200)		6000	FGH-V	GLOBE ,INLINE,FLOW REG,U/C,N	88X88	11.75	S	1S	1S	0000	.00	2	0 3
	CLASS:MANUAL SIZE: 2.00 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL: BODY	TRIM	SEAT	SOLE	OTHR	FLOW FACTOR	P/N TOT	M/R UCR* TOT*
	SIZE: 2.00INCH (CONTD)														
FLOMATC	DAR-610 (2.00)				, , , ,		.00						.00	1	2
GROVE	11193H1049A MOD A-3		6CCC	ABC-V	GLOBE ,INLINE,SHUTOFF , ,N	68X68	13.00	S1S11317C0					1.38 OD	1	0 1
HAMMOND	FIG 606 (2.00)		200	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	2.63	B2B2B21900					2.3 CV	8	0 2
HILLS	F602S6T (2.00)	75M17763-HBV-2		E -S	BALL , , , ,		.00						.00	*	*
HILLS	2-S151-BR-T		150	R -V	BALL ,INLINE,SHUTOFF , ,N	62X62	7.00	B1B1121200					1.50 OD	12	0 1
HILLS	2-S301-S6-T		3CC	R -V	BALL ,INLINE,SHUTOFF , ,N	62X62	11.12	S1S1121200					1.50 OD	2	0 1
JAMSBRY	A-HV-36-TT (2.00)		500	R -V	BALL ,INLINE,SHUTOFF ,VAC,N	10X10	5.00	B1S1121200					1.50 OD	1	0 2
JAMSBRY	A-11-TT (2.00)		5CC	R -V	BALL ,INLINE,SHUTOFF , ,N	10X10	5.00	B1K1121200					1.50 OD	1	0 2
JAMSBRY	A-36-TT (2.00)		2000	R -V	BALL ,INLINE,SHUTOFF , ,N	10X10	5.00	S1S1121200					1.50 OD	2	0 2
JENKINS	326 (2.00)		2CC	R -V	GATE ,INLINE,SHUTOFF , ,N	61X61	7.00	F0B2B21900					229.0 CV	2	0 1
KENNEDY	FIG 372 (2.00)		400	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	4.00	B3B3B31900					.00	2	0 2
KENNEDY	FIG 525 (2.00)		2CC	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	3.75	B3B3B31900					.00	2	0 2
KEYSTON	100 (2.00)	75M15214-PBFV-2	150	NO -S	BUTRFLY,INLINE,SHUTOFF , ,N	62X62	1.63	A3A0030300					2.13 OD	1	0 1
MUELLER	M-15143		2CC	R -V	GLOBE ,INLINE,SHUTOFF , ,N	10X10	4.44	B1B1B10200					.00	9	0 2
MUELLER	M15109		2CC	R -V	GLOBE ,INLINE,SHUTOFF , ,N	10X10	3.19	B1B7B11900					.00	1	0 2
NIBCO	T-113 (2.00)		200	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	3.19	B2B2B21900					198.0 CV	1	0 2

CLASS:MANUAL
SIZE: 2.00 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	VALVE TRIM	VALVE SEAL	MATL ASSY	MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 2.00INCH (CONTD)														
PACIFIC	68550-F8-12T	75M25476-2	150	R -V	GATE ,INLINE,SHUTOFF ,E-B,N	61X61	7.00	S1S1121200					.00	15	2 1
PACIFIC	S-2395-F6-12TASA	75M17761-LGV-10	300	FG -S	GATE , , , ,		.00						.00	*	*
PACIFIC	S-8550-EB (6-12ASA)	75M05871-PGV-2	200	F -S	GATE ,INLINE,SHUTOFF ,CRY,N	62X62	7.00	S1S1121200					.00	2	2 1
PACIFIC	S-8550-EB (6-12T)		200	FGH-V	GATE ,INLINE,SHUTOFF ,CRY,N	62X62	7.00	S1S1121200					.00	1	1 1
PACIFIC	S-8551(2.00)		150	R -V	GATE ,INLINE,SHUTOFF , ,N	10X10	4.88	S1S1S11200					.00	2	0 2
PACIFIC	2S-8550-EB (6-12TASA)	75M05869-LGV-6		G -S	, , , ,		.00						.00	*	*
PACIFIC	2S35EB6-12TASA	75M05869-LGV-8		G -S	, , , ,		.00						.00		0 1
PACIFIC	8550-F8-12T	10428515	150	R -V	GATE ,INLINE,SHUTOFF ,E-B,N	61X61	7.00	S1S1121200					.00	1	1 1
POWELL	105-2	75M25547-1	225	R -V	GLOBE ,ANGLE ,SHUTOFF , ,N	61X61	7.25	B3B7B31900					.00	5	0 1
POWELL	70-104FE C53287	75M05869-LGLV-3		FG -S	, , , ,		.00						.00	*	*
POWELL	70-1414G	75M25500-2	225	F -V	GATE ,INLINE,SHUTOFF ,E-B,N	61X61	7.00	B3B7B31200					.00	8	0 1
POWELL	70-2714 (2.00)		300	F -V	GATE ,INLINE,SHUTOFF ,E-B,N	10X10	4.00	B2B2B21200					.00	2	0 2
STOCKHM	FIG B-13 (2.00)		200	R -V	GLOBE ,INLINE, , ,	10X10	5.13	B2B2171987					.00	2	0 2
	CLASS:MANUAL SIZE: 2.13 INCH														
MUELLER	A-15168 2 1/8 ODF	75M15816-PAV-2	375	Z -S	GLOBE ,ANGLE ,SHUTOFF , ,N	79X79	.00						.00	4	0 3
	CLASS:MANUAL SIZE: 2.13 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 2.13INCH (CONTD)													
MUELLER	A-15168 2 1/8 ODF	75MC44C6-PAV-2	425	Z -V	GLOBE ,ANGLE ,SHUTOFF , ,N	76X76	1.80	B2B2140300				.00	4	0 3
	CLASS:MANUAL SIZE: 2.50 INCH													
ANNIN	MOD 6510(2)XXSGR20-2.5	75M13208-PGLV-5	6000	BC -S	GLOBE ,INLINE,FLOW REG, ,	68X68	.00					.00		0 2
ANNIN	MOD 6510(2)XXSGR20-2.5	75MC5871-PGLV-5	6000	BC -S	GLOBE ,INLINE,FLOW REG, ,	68X68	.00					.00	21	0 1
CALMEC	IM-165	75M51255-2	6000	ABC-S	Y-GLOBE,INLINE,SHUTOFF , ,		.00					.00	2	0 1
GROVE	M-155241-W MOD G-3		6000	ABC-V	GATE ,INLINE,SHUTOFF , ,N	68X68	12.25	K1K1K11400				2.06 OD	1	1 1
VACCO	M-6P-X469-2G	75M25443-4	6000	BC -V	GLOBE ,INLINE,FLOW REG, ,N	68X68	12.50	S1S1130600				22.0 CV	7	1 1
VACCO	M-6P-X469-2G		6000	BC -V	GLOBE ,INLINE,FLOW REG, ,N	68X68	12.50	S1S1130600				22.0 CV	7	1 1
VACCO	M-6P-X469-2G	1042853C	6000	BC -V	GLOBE ,INLINE,FLOW REG, ,N	68X68	12.50	S1S1130600				22.0 CV	7	1 1
	CLASS:MANUAL SIZE: 3.00 INCH													
ANNIN	MOD 6510(3)XXSGR	75MC5871-PGLV-6	6000	BC -S	GLOBE ,INLINE,FLOW REG, ,	68X68	.00					.00	6	0 1
CRANE	475 1/2 (3.00)		200	R -V	GATE ,INLINE,SHUTOFF , ,N	61X61	8.00	F1F1F11700				.00	11	0 1
FLOMATC	D-610				, , , ,		.00					.00	1	1
	CLASS:MANUAL SIZE: 3.00 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	STEM	SEAT	O RING	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 3.00INCH (CONTD)													
FLOMATC	DAD-211	75M17761-LGLV-7	300	FG -S	Y-GLOBE, , , ,		.00					.00	*	*
FLOMATC	DAR-610 (3.00)				, , , ,		.00					.00	1	4
HILLS	3-S301-S6-T		300	R -V	BALL ,INLINE,SHUTOFF , ,N	62X62	11.12	S1S1121200				2.25 OD	6	0 1
HOMESTD	602		200	R -V	PLUG ,INLINE,SHUTOFF , ,N	61X61	7.63	C1C1C11700				3.4 CV	3	0 1
JAMSBRY	D-F30S-36-TT (3.00)		720	R -V	BALL ,INLINE,SHUTOFF , ,N	61X61	8.00	S1S1121200				2.31 OD	4	0 1
JAMSBRY	D-150F-36-TT (3.00)		275	R -V	BALL ,INLINE,SHUTOFF , ,N	61X61	8.00	S1S1121200				2.31 OD	4	0 1
JAMSBRY	D-300F-36-TT (3.00)		720	R -V	BALL ,INLINE,SHUTOFF , ,N	61X61	11.13	S1S1121200				2.31 OD	2	0 1
LADISH	V-8375-0707-30		300	R -V	GATE ,INLINE,SHUTOFF , ,N	62X62	11.13	S1S1S11200				.00	9	0 1
LUNKHMR	FIG 123 (3.00)	75M15816-PGLV-8	300	R -S	GLOBE ,INLINE,SHUTOFF , ,N	10X10	8.38	B2B7201982				.00	6	0 2
LUNKHMR	FIG 123 (3.00)	75M04406-PGLV-8	300	R -V	GLOBE ,INLINE, , ,N	10X10	8.38	B2B7201982				.00	6	0 2
PACIFIC	G710YJ10KWE3	75M17763-HGLV-10		G -S	, , , ,		.00					.00	*	*
PACIFIC	S-8530-F8-12TASA(3.00)	75M17761-LGV-8	300	FG -S	GATE , , , ,		.00					.00	*	*
PACIFIC	S-8550-EB (8-12ASA)	75M05871-PGLV-3	200	F -S	GATE ,INLINE,SHUTOFF ,CRY,N	62X62	8.00	S1S1121200				.00	15	16 1
PACIFIC	S-8550-F8-12TASA	75M17761-LGV-9	150	FG -S	GATE ,INLINE,SHUTOFF , ,N		.00	S1S1121200				.00	1	0 1
PACIFIC	3S-8550-EB (8-12TASA)	75M05869-LGV-5		G -S	, , , ,		.00					.00	*	*

CLASS:MANUAL
SIZE: 3.00 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL ACT	VALVE MATL OTH	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 3.00INCH (CONTD)														
POWELL	1401G MODIFIED (3.00)	75M15329-FGV-2	200	YLM-S	GATE ,INLINE,SHUTOFF , ,N	61X61	8.00	B3B3B31900					.00	4	0 1
POWELL	2453D6 (3.00)	75M05432	200	B -S	GATE ,INLINE,SHUTOFF , ,N	61X61	8.00	S1B2121200					.00	3	0 1
POWELL	2453SG (3.00)	75M05867-FGV-5	200	Y -S	GATE ,INLINE,SHUTOFF , ,N	61X61	8.00	S1S1121200					.00	6	0 1
POWELL	48422 (3.00)	75M05752-HGV-2	150	H -S	GATE ,INLINE,SHUTOFF ,CRY,N	62X62	.00	S1S1S11200					.00	40	8 1
STOCKHM	FIG 8-109 (3.00)		200	R -V	GATE ,INLINE, , ,	76X76	5.69	B2B2B21987					.00	1	0 3
VACCO	M02T-F4610	10428577	150	F -V	GLOBE ,INLINE,SHUTOFF ,VAC,N	62X62	14.00	S1S1131212					110.0 CV	2	0 1
VACCO	M02T-F4610	75M25494-1	150	F -V	GLOBE ,INLINE,SHUTOFF ,VAC,N	62X62	14.00	S1S1131212					110.0 CV	2	0 1
	CLASS:MANUAL SIZE: 4.00 INCH														
CRANE	465 1/2 (4.00)		200	R -V	GATE ,INLINE,SHUTOFF , ,N	61X61	9.00	F1B2B21700					.00	9	0 1
JAMSBRY	D-150F-22-TT (4.00)		275	R -V	BALL ,INLINE,SHUTOFF , ,N	61X61	9.00	C1S1121200					3.13 OD	1	0 1
JAMSBRY	D-150F-44-TT (4.00)	75M15329-FBV-2	200	YLM-S	BALL ,INLINE,SHUTOFF , ,N	61X61	9.00	A0A0121200					3.13 OD	8	0 1
KENNEDY	FIG 0611 (4.00)		200	R -V	GATE ,INLINE,SHUTOFF , ,N	61X61	9.00	F1B1B11900					.00	3	0 1
KEYSTON	100 (4.00)	75M15214-PBFV-3	150	NQ -S	BUTRFLY,INLINE,SHUTOFF , ,N	62X62	2.00	A3A0030300					4.13 OD	4	0 1
LADISH	V-8375-0707-40		300	R -V	GATE ,INLINE,SHUTOFF , ,N	62X62	12.00	S1S1S11200					.00	4	0 1
OIC	1138		200	R -V	GATE ,INLINE,SHUTOFF , ,N	61X61	9.00	F1B1B11900					.00	1	1 1
	CLASS:MANUAL SIZE: 4.00 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL: BODY	TRIM	SEAT MATL	SEAL	OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 4.00INCH (CONTD)														
PACIFIC	G1710Y-10KASA	75M17751-LGLV-3	150	FG -S	Y-GLOBE		.00						.00	*	*
PACIFIC	L1Y10FA405-2766	75M17763-HGLV-24		HCD-S			.00						.00	*	*
PACIFIC	S-8530-F8-12TASA(4.00)	75M17761-LGV-6	300	FG -S	GATE		.00						.00	*	*
PACIFIC	S-8550-EB (10-12ASA)	75M05871-PGV-4	200	F -S	GATE,INLINE,SHUTOFF	,CRY,N	62X62	9.00	S1S1121200				.00	2	2 1
PACIFIC	4S-8550-EB (8-12TASA)	75M05869-LGV-9		G -S			.00						.00	*	*
PACIFIC	710Y	75M05752-HGLV-9	150	H -S	Y-GLOBE,INLINE,FLOW REG	,J/C,N	88X88	.00	S1S1131200				300.0 CV	11	1 3
POWELL	1401G MODIFIED (4.00)	75M15329-FGV-1	200	YLM-S	GATE,INLINE,SHUTOFF	,,N	61X61	9.00	B3B3B31900				.00	6	0 1
POWELL	2453SG (4.00)	75M05867-FGV-4	200	Y -S	GATE,INLINE,SHUTOFF	,,N	61X61	9.00	S1B2121200				.00	4	0 1
TEMESCL	4-5120		15	AK -V	TOGGLE,INLINE,SHUTOFF	,VAC,	64X64	4.13	A300000000				.00	1	0 1
	CLASS:PRES REG SIZE: 0.25 INCH														
AIRMATC	A119-2		125	A -V	REG,SPR,RLV,MAN,	,125/10	10X10	2.75	0000020250				.00	3	0 2
APCO	1341-1T		6000	ABC-V	REG,SPR,RLV,MAN,	,75/0	13X13	2.62	S1S1130253				.1 CV	2	0 1
APCO	1341-1016-10T		6000	ST -V	REG,SPR,RLV,MAN,	,2500/0	13X13	2.62	S1S1131202				.00	4	0 1
APCO	1341-1016-4T		6000	ST -V	REG,SPR,RLV,MAN,	,300/	13X13	2.62	S1S1131202				.00	2	0 1
APCO	1341-4P		6000	ABC-V	REG,SPR,RLV,MAN,	,300/0	10X10	2.62	S1S1130253				.1 CV	2	0 2
	CLASS:PRES REG SIZE: 0.25 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL: BODY	VALVE MATL: TRIM	VALVE MATL: SEAL	VALVE MATL: SOLT	VALVE MATL: OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.25INCH (CONTD)														
APCO	1344-1T		7000	ABC-V	REG,SPR,RLV,MAN, ,6000/1000	13X13	2.62	S1S1131214					.00	2	1 1
APCO	1345-4A		10000	ABC-V	REG,SPR,RLV,MAN, ,9999/2000	46X46	2.62	S1S11300S1					.00	1	1 1
APCO	1345X4T		10000	ABC-V	REG,SPR,RLV,MAN,CRY,9999/2000	13X13	2.62	S1S11300S1					.00	2	0 1
BASTIAN	M207ON	75M51404	2000	B -S	REG,SPR,RLV,MAN, , 80/0	10X10	.00	B100000000					.00	2	0 2
CONOFLO	H-10XT-HXXB		200	R -V	REG,SPR,RLV,MAN, , 125/0	10X10	2.56	B0B0B00200					.00	4	0 1
FUTR-CR	40051-3 MODIFIED	75M16604	6000	AB -S	REG,SPR,RLV,SET, ,1000/100	19X19	2.25	S1S1S10600					.00	1	0 1
FUTR-CR	40051-4	75M02663	3000	ABC-S	REG,SPR,RLV,SET, , 75/15	13X13	2 25	A0000002C0					.00	4	1 1
FUTR-CR	40170-2	10426705	3000	A -S			.00						.00	4	0
GROVE	M-12921A MOD 94	75M25576-1	6000	ABC-V	REG,DOM,RLV,PRS, ,5000/0	10X10	3.75	S1S1S11300					.19 OD	6	1 2
GROVE	M-12961-P MOD 94	75M15044-PPRV-2	6000	BC -S	REG,DOM,RLV,PRS, ,6000/0	13X13	3.75	S1S1S11300					.00	1	3 1
GROVE	MOD 15SX	75M17761-LPRV-1	3000	B -S			.00						.00	*	*
GROVE	MOD 94	75M17761-LPRV-2	5000	B -S			.00						.00	*	*
GROVE	MOD 94W	75M17761-LPRV-5	5000	B -S			.00						.00	1	0
GROVE	10419A2E MOD 94		3500	ABC-V	REG,SPR,RLV,PRS, ,1500/0	13X13	2.75	A0S1S213C0					.00	2	1 1
GROVE	10927BA2A MOD 15L		3000	ABC-V	REG,SPR,RLV,MAN, , 60/0	13X13	3.19	S1S1S11400					.00	2	0 1
GROVE	10927BP2A MOD 15L		3000	ABC-V	REG,SPR,RLV,MAN, , 60/0	10X10	3.19	S1S1S11400					.00	1	0 2

CLASS:PRES REG
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	VALVE MATL STEM	VALVE MATL SEAT	VALVE MATL OTH	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.25INCH (CONTD)													
GROVE	10927CA2A MOD 15L		3000	ABC-V	REG,SPR,RLV,MAN, , 150/0	13X13	3.19	S1S1S	11400			.00	1	0 1
GROVE	10927CA2B MOD 15L		3000	ABC-V	REG,SPR,RLV,MAN, , 150/0	13X13	3.19	S1S1S	11400			.00	1	0 1
GROVE	10928CK2B MOD 15LX		6000	ABC-V	REG,SPR,RLV,MAN, , 150/0	19X19	3.19	S1S1S	11400			.00	3	0 1
GROVE	10928EP2A MOD 15LX		6000	ABC-V	REG,SPR,RLV,MAN, , 300/0	10X10	3.19	S1S1S	11400			.00	1	1 2
GROVE	10929HK2B MOD 15LH	75M50165-1	6000	ABC-S	REG,SPR,RLV,MAN, ,1000/0	19X19	3.19	S1S1S	11400			.00	1	0 1
GROVE	10929KK2B MOD 15LH	75M50165-2	6000	ABC-S	REG,SPR,RLV,MAN, ,3500/0	19X19	3.19	S1S1S	11400			.00	1	0 1
GROVE	10930LA2A MOD 15LHX		6000	ABC-V	REG,SPR,RLV,SET, ,3100/0	13X13	.00	S1S1S	11400			.00	1	0 1
GROVE	10930LK2B MOD 15LHX	75M11856	6000	AB -S	REG,SPR,RLV,MAN, ,3100/0	19X19	3.19	S1S1S	11400			.00	2	10 1
GROVE	10931MK2B MOD 15KX	75M50165-13	6000	ABC-S	REG,SPR,RLV,MAN, ,3500/0	19X19	3.19	S1S1S	11400			.00	22	15 1
GROVE	10931MK2B MOD 15KX	75M51166-2	6000	ABC-S	REG,SPR,RLV,MAN, ,3500/0	19X19	3.19	S1S1S	11400			.00	5	0 1
GROVE	10931MP2B MOD 15KX		6000	ABC-V	REG,SPR,RLV,MAN, ,3500/0	10X10	3.19	S1S1S	11200			.00	1	1 2
GROVE	10931PA2A MOD 15KX		6000	ABC-V	REG,SPR,RLV,MAN, ,6000/0	13X13	3.19	S1S1S	11400			.00	1	1 1
GROVE	10931PK2A MOD 15KX		6000	ABC-V	REG,SPR,RLV,MAN, ,6000/0		3.19	S1S1S	11400			.00	1	0 1
GROVE	10931PK2B MOD 15KX		6000	ABC-V	REG,SPR,RLV,MAN, ,6000/0		3.19	S1S1S	11400			.00	1	0 1
GROVE	10942LP2A MOD 15LHXG	75M25565-1	6000	ABC-V	REG,SPR,RLV,MAN, ,3100/0	10X10	3.19	S1S1S	11200			.00	2	0 2
HONEYWL	358249-5		150	A -V	REG,SPR,N-R,MAN, , 35/0	10X10	2.75					.00	2	0 2

CLASS:PRES REG
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAL	SPRING	OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.25INCH (CONTD)														
HYDRESR	28170-9	75M11875	3000	K -S	REG,SPR, ,SET,	19X19	1.75	A2S1S11200					.00	1	4 1
KIDDE	893155-06	75M11859	3000	AB -S	REG,SPR,RLV,SET,	19X19	5.88	A0S0140300					.00	1	10 1
LEONARD	128390-4	75M50726-2	3000	ABC-S	REG,SPR,N-R,SET,	18X18	3.40	S1S1S10200					.00	2	0 1
LEONARD	146050-34	10437835-2	3000	ABC-S	REG,SPR,RLV,SET,	19X19	2.20	A0A0132300					.00	6	2 1
LEONARD	187040-2	75M50182	3000	ABC-S	REG,SPR,RLV,SET,	19X19	2.00	S1S1140200					.00	12	3 1
MAROTTA	219004-8155 RV31E03195	75M08830-1	3000	BX -S	REG,SPR,RLV,MAN,	18X18	2.20	A1S1140200					.00	7	2 1
MAROTTA	219004-J151 MOD RV31	75M08830-2	3000	BX -S	REG,SPR,RLV,MAN,	18X18	2.20	A1S1140200					.00	4	0 1
MAROTTA	230344-LA11 MOD RV31G	75M51168-1	6000	ABC-S	REG,SPR,RLV,SET,	19X19	2.20	S1S1142512					.1 CV	3	5 1
MAROTTA	230524-2 MOD RV41AK	75MC7000-1	6000	ABC-S	REG,SPR,RLV,MAN,	19X19	2.22	S1S3142512					.00	1	1 1
MAROTTA	230524-3 MOD RV41AK	75M07000-2	6000	ABC-S	REG,SPR,RLV,MAN,	19X19	2.22	S1S3142512					.00	1	4 1
MAROTTA	280157-J11RV31HAE02962	11M00790	6000	B -S	REG,SPR,RLV,MAN,	13X13	2.20	S1S1142502					.00	6	0 1
MASON-N	77-1		250	A -V	REG,SPR,N-R,MAN,	10X10	3.00	A3B0B00200					.3 CV	1	4 2
MASON-N	77-3		250	A -V	REG,SPR,RLV,MAN,	10X10	3.00	A3S1B00300					.3 CV	1	1 2
MOORE	40-30	75M15214-PPR-2	150	B -S	REG,SPR,RLV,MAN,	10X10	3.38	B0B0B00300					.00	6	1 2
MOORE	40H-50	75M15816-PPR-8	150	B -S	REG,SPR,RLV,MAN,	10X10	3.38	B0B0B00300					.00	8	0 2

CLASS:PRES REG
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL ACTUATOR	FLOW FACTOR	M/R P/N TOT	M/R UCR TOT
SIZE: 0.25INCH (CONTD)														
NORGREN	11-002-019		400	AS -V	REG,SPR,RLV,MAN,	.125/2	10X10	3.13	Z180800000			.00	2	0 2
TESCOM	26-1007	75M05871-PPRV-5	6000	B -S	REG,SPR,RLV,MAN,	.500/0	13X13	2.35	B1S1131202			.00	3	1 1
TESCOM	26-1007-30-051	75M05871-PPRV-5	6000	B -S	REG,SPR,RLV,MAN,	.500/0	13X13	.00	B0S1130200			.00	1	1 1
TESCOM	26-1007-30-058		6000	ABC-V	REG,SPR,RLV,MAN,	.500/0	13X13	.00	B1S1130200			.00	2	3 1
TESCOM	26-1022-50-044	75M51364-2	10000	ABC-S	REG,SPR,RLV,MAN,	.6000/50	19X19	2.35	S1S1130212			.00	3	3 1
TESCOM	26-1022-50-044	75M51383-2	10000	ABC-S	REG,SPR,RLV,MAN,	.6000/50	19X19	2.35	S1S1130212			.00	5	2 1
TESCOM	26-1023-30		10000	ST -V	REG,SPR,RLV,MAN,	.4000/25	13X13	2.35	S1S1130212			.00	1	0 1
TESCOM	26-1023-30-098A		10000	ST -V	REG,SPR,RLV,MAN,	.4000/25	13X13	2.35	S1S1130212			.00	1	1 1
TESCOM	26-1023-44		10000	ST -V	REG,SPR,RLV,MAN,	.4000/25	50X50	2.30	S1S1130212			.00	1	0 1
TESCOM	26-1023-60-066		10000	ST -V	REG,SPR,RLV,MAN,	.4000/25	50X50	2.35	S1S1130212			.00	1	0 1
TESCOM	26-1025-50-044	75M51364-1	10000	ABC-S	REG,SPR,RLV,MAN,	.1500/10	19X19	2.35	S1S1130212			.00	1	1 1
TESCOM	26-1027-30		10000	ST -V	REG,SPR,RLV,MAN,	.500/0	13X13	2.30	S1S1130212			.00	4	0 1
TESCOM	26-1027-30-002		10000	ST -V	REG,SPR,RLV,MAN,	.500/0	13X13	2.30	S1S1130212			.00	1	1 1
TESCOM	26-1027-50-044	75M51383-3	10000	ABC-S	REG,SPR,RLV,MAN,	.500/0	19X19	2.35	S1S1130212			.00	7	1 1
TESCOM	26-1027-50-044	75M51364-3	10000	ABC-S	REG,SPR,RLV,MAN,	.500/0	19X19	2.35	S1S1130212			.00	2	0 1
TESCOM	26-1064-50-044	75M51364-4	10000	ABC-S	REG,SPR,RLV,MAN,	.500/0	19X19	2.30	S1S1130212			.00	15	2 1

CLASS:PRES REG
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	SO ACT	THD	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.25INCH (CONTD)														
TESCOM	26-1067-54-043		10000	ABC-V	REG,SPR,RLV,MAN, , 500/0	19X19	2.30	S1S1130212					.00	1	1 1
TESCOM	26-1522-24		6000	ST -V	REG,SPR,N-R,MAN, , 250/0	10X10	2.46	S1S1120203					.00	1	1 2
TESCOM	26-2022-30		250	ABC-V	REG,DOM,RLV,PRS, , 250/0	10X10	2.20	S1S1130213					.00	1	1 2
TESCOM	26-2022-30-012A		250	ABC-V	REG,DOM,RLV,PRS, , 250/0	10X10	2.20	S1S1130213					.00	1	1 2
TESCOM	26-2022-30-12		250	ABC-V	REG,DOM,RLV,PRS, , 250/0	10X10	2.20	S1S1130213					.00	1	0 2
	CLASS:PRES REG SIZE: 0.38 INCH														
AIRMATC	MOD B (0.38)		250	A -V	REG,SPR,N-R,MAN, , 160/0	10X10	3.88	B1B1030303					.00	1	0 2
APCO	1341-7P6		6000	ABC-V	REG,SPR,RLV,MAN, , 900/0	10X10	2.62	S1S11302S3					.1 CV	1	0 2
APCO	1347-1016-1		250	ST -V	REG,SPR,N-R,MAN, , 2/0	13X13	3.75	S1S1131202					.00	1	0 1
CASHCO	3381		400	R -V	REG,SPR,N-R,MAN, , 300/10	10X10	2.63	B1B1B10300					.5 CV	1	0 2
F-HILLR	1543		2500	A -V	REG,SPR,RLV,MAN, , 60/1	10X10	3.50	A000000000					.00	3	1 2
F-HILLR	1543-E		2500	A -V	REG,SPR,RLV,MAN, , 60/1	10X10	3.50	A0A0A01400					.00	2	0 2
F-HILLR	30132		250	S -V	REG,SPR,RLV,MAN, , 30/1	10X10	2.25	A3S0141400					.00	6	0 2
GROVE	M-12951-J MOD 94W		6000	ABC-V	REG,DOM,RLV,PRS, ,6000/0	13X13	4.75	S1S1S11300					.00	1	0 1
GROVE	M-12951-N MOD 94W	75M02156-2	6000	ABC-S	REG,DOM,N-R,PRS, ,6000/0	19X19	4.75	S1S1131700					.00	6	1 1
	CLASS:PRES REG SIZE: 0.38 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE BODY	VALVE MATL TRIM	SEAT	SEAL	OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.38INCH (CONTD)														
GROVE	M-12951-N MOD 94W		6000	ABC-V	REG,DOM,N-R,PRS, ,6000/0	19X19	4.75	S1S1131700					.00	1	2 1
GROVE	M-12961-A MOD 94	75M04406-PPR-12	6000	B -S	REG,DOM,RLV,PRS, ,6000/0	13X13	4.75	S1S1S11300					.00	4	0 1
GROVE	M-12961-F MOD 94	75M09220-PPRV-1	6000	D -S	REG,DOM,N-R,PRS, ,6000/0	13X13	3.75	S1S1131326					.19 OD	1	0 1
GROVE	M-12961-F MOD 94	75M09618-PPRV-1	6000	BC -S	REG,DOM,N-R,PRS, ,6000/0	13X13	3.75	S1S1131326					.19 OD	4	3 1
GROVE	M-12961-F MOD 94	75M05871-PPRV-3	6000	BC -S	REG,DOM,N-R,PRS, ,6000/0	13X13	3.75	S1S1131326					.19 OD	4	3 1
GROVE	M-12961-J MOD 94	75M15211-PRV-3	6000	ST -V	REG,DOM,N-R,PRS, ,6000/0	13X13	3.75	S1S1131300					.19 OD	1	2 1
GROVE	M-12961-M MOD 94	75M05871-PPRV-3	6000	BC -S	REG,DOM,RLV,PPS, ,6000/0	13X13	3.75	S1S1S12600					.00	1	0 1
GROVE	M-12961-M MOD 94	75M15044-PPRV-1	6000	B -S	REG,DOM,RLV,PRS, ,6000/0	13X13	3.75	S1S1S12600					.00	10	0 1
GROVE	M-6374-V MOD 15KX		6000	ABC-V	REG,SPR,RLV,MAN, ,6000/0	13X13	.00	S1S1S11400					.00	1	1 1
GROVE	10927AA3B MOD 15L	75MC9618-PPRV-3	3000	BC -S	REG,SPR,RLV,MAN, , 25/0	13X13	3.19	S1S1S11400					.00	2	0 1
GROVE	10927AA3B MOD 15L	75M15044-PPRV-3	3000	B -S	REG,SPR,RLV,MAN, , 25/0	13X13	3.19	S1S1S11400					.00	3	0 1
GROVE	10927AA3B MOD 15L	75M25567-1	3000	ABC-V	REG,SPR,RLV,MAN, , 25/0	13X13	3.19	S1S1S11400					.00	2	0 1
GROVE	10927BA3B MOD 15L		3000	ABC-V	REG,SPR,RLV,MAN, , 60/0	13X13	3.19	S1S1S11400					.00	12	0 1
GROVE	10927EA3A MOD 15L	75M04406-PPR-11	3000	B -S	REG,SPR,RLV,MAN, , 300/0	13X13	3.19	S1S1S11400					.00	1	0 1
GROVE	10927EA3B MOD 15L	75M15816-PPR-11	3000	B -S	REG,SPR,RLV,MAN, , 300/0	13X13	3.19	S1S1S11400					.00	4	0 1
GROVE	10928AK3B MOD 15LX	75M50165-3	6000	ABC-S	REG,SPR,RLV,MAN, , 25/0	19X19	3.19	S1S1S11400					.00	1	0 1

CLASS:PRES REG
SIZE: 0.38 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	SOLENOID	OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.38INCH (CONTD)														
GROVE	10928CK3B MOD 15LX	75M50165-5	6000	ABC-S	REG,SPR,RLV,MAN, 150/0	19X19	3.19	S1S1S11400					.00	1	0 1
GROVE	10928CK3B MOD 15LX	75M50165-4	6000	ABC-S	REG,SPR,RLV,MAN, 60/0	19X19	3.19	S1S1S11400					.00	1	1 1
GROVE	10929HA3A MOD 15LH		6000	ABC-V	REG,SPR,RLV,MAN, 1000/0	13X13	3.19	S1S1S11400					.00	1	0 1
GROVE	10929HK3B MOD 15LH	75M50165-8	6000	ABC-S	REG,SPR,RLV,MAN, 1000/0	19X19	3.19	S1S1S11400					.00	1	0 1
GROVE	10929KK3B MOD 15LH	75M50165-9	6000	ABC-S	REG,SPR,RLV,MAN, 200/0	19X19	3.19	S1S1S11400					.00	2	1 1
GROVE	10931MK3B MOD 15KX	75M50165-11	6000	ABC-S	REG,SPR,RLV,MAN, 3500/0	19X19	3.19	S1S1S11400					.00	1	1 1
GROVE	10931PK3B MOD 15KX	75M50165-18	6000	ABC-S	REG,SPR,RLV,MAN, 6000/0	19X19	3.19	S1S1S11400					.00	1	0 1
GROVE	10940EA3B MOD 15LXG		6000	ABC-V	REG,SPR,RLV,MAN, 3000/0	13X13	.00	S1S1S11400					.00	1	1 1
GROVE	11221A0393		6000	ABC-V	REG,DOM,RLV,PRS, 1000/0	15X15	4.19	S1S1120100					.62 00	7	0 1
MAROTTA	219694 MOD RV23SL	75M51363-1	4000	B -V	REG,SPR, ,SET, 50/50	13X13	3.00	A0S1141700					.00	4	0 1
MAROTTA	227464-J11 RV31HE02461	75M08829-1	10000	B -S	REG,SPR,RLV,MAN, 3000/0	21X21	2.20	S1S1140200					.65	1	23 1
MAROTTA	227464-J11 RV31HE02461	75M08829-2	10000	B -S	REG,SPR,RLV,MAN, 3000/0	21X21	2.20	S1S1140200					.06 E0	10	7 1
MAROTTA	229944 MOD RV79LK	75M51264	6000	CDE-S	REG,DOM,RLV,PRS, 1000/0	19X19	2.56	S1A4132502					.00	3	3 1
MAROTTA	229954-1 MOD RV23SK	75M51263-1	3000	BCE-S	REG,SPR,RLV,SET, 37/5	19X19	2.56	S1S11302A4					.00	2	0 1
MAROTTA	230514-2 MOD RV23DK	75M51290-2	1000	ABC-S	REG,DOM,RLV,MAN, 1000/5	19X19	3.38	S1S1142500					.00	1	0 1
MAROTTA	230514-3 MOD RV23DK	75M51290-3	4500	ABC-S	REG,DOM,RLV,MAN, 6000/50	19X19	3.38	S1S1142500					.00	2	0 1

CLASS:PRES REG
SIZE: 0.38 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL SEAT	VALVE MATL STEM	VALVE MATL ACTUATOR	VALVE MATL OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.38INCH (CONTD)														
MAROTTA	230904-12 MOD RV78AN	75M08831-1	4500	B -S	REG,DOM,RLV,SET,	190/50	19X19	2.55	A2S1140200				.00	1	0 1
MAROTTA	280158-11 RV788M-1	11M00792	1000	X -S	REG,SPR,RLV,MAN,	100/35	17X17	2.55	A2S1140225				.00	2	0 1
NORGREN	11-002-043		400	AS -V	REG,SPR,RLV,MAN,	125/2	10X10	3.13	Z180800000				.00	1	0 2
TESCOM	26-1063-56-043	75M51383-18	6000	ABC-S	REG,SPR,RLV,MAN,	4000/25	13X13	2.30	S1S1130612				.00	4	3 1
	CLASS:PRES REG SIZE: 0.50 INCH														
APCO	1346X1024		3000	B -V	REG,SPR,N-R,MAN,	40/0	10X10	3.50	S1S1131200				.6 CV	1	1 2
BASTIAN	8804PL				REG,SPR, ,MAN,	50/1	10X10	.00					.00	6	0 2
CARRIER	EB51HH-080		200	NA -V	REG,SPR,N-R,MAN,	125/0	10X10	3.25	B1B1030000				.00	2	2 2
GROVE	M-12951-P MOD 94W	75M02156-3	6000	ABC-S	REG,DOM,N-R,PRS,	6000/0	19X19	4.75	S1S1131700				.00	1	0 1
GROVE	M-12961-A MOD 94	75M15816-PPR-12	6000	ABC-V	REG,DOM,RLV,PRS,	6000/0	13X13	4.75	S1S1S11300				.00	3	1 1
GROVE	M-12961-D MOD 94		6000	ABC-V	REG,DOM,RLV,PRS,	6000/0	13X13	4.75	S1S1S11300				.09 OD	1	0 1
GROVE	M-12961-D MOD 94	75M09618-PPRV-4	6000	BC -S	REG,DOM,RLV,PRS,	6000/0	13X13	4.75	S1S1S11300				.09 OD	8	3 1
GROVE	M-12961-N MOD 94	75M05871-PPRV-8	6000	BCD-S	REG,DOM,RLV,PRS,	6000/0	13X13	4.75	S1S1S11300				.00	1	1 1
GROVE	M-12961-N MOD 94	75M05871-PPRV-3	6000	BC -S	REG,DOM,RLV,PRS,	6000/0	13X13	4.75	S1S1S11300				.00	16	12 1
GROVE	M-12961-N MOD 94	75M15044-PPRV-4	6000	BC -S	REG,DOM,RLV,PRS,	6000/0	13X13	4.75	S1S1S11300				.00	8	0 1
	CLASS:PRES REG SIZE: 0.50 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	VALVE MATL INTMAT	VALVE MATL SEALS	VALVE MATL SEAT	VALVE MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.50INCH (CONTD)														
GROVE	10989A048A MOD 202B		6000	ABC-V	REG,DOM,RLV,PRS, ,6000/0	13X13	4.75	S1S1S11300					.38 OD	1	0 1
GROVE	10992A048A MOD 202B		3600	ABC-V	REG,DOM,RLV,PRS, ,3600/0	13X13	4.75	S1S1S11300					.38 OD	1	0 1
MAROTTA	226394-3 RV78E EO 2865	11M00682-1	6000	B -S	REG,SPR,RLV,SET, ,3330/1430	17X17	2.55	A2S11402A1					.00	2	0 1
NORGREN	11-002-059		400	AS -V	REG,SPR,RLV,MAN, , 250/5	10X10	3.38	Z1B0B00000					.00	2	0 2
PARKER	RC-2550	75M10272	250	A -S	REG,DOM,RLV,PRS, , 125/3	10X10	3.00						.00	3	0 2
VICTOR	VQC-2751	75M08410-1	7000	B -S	REG,SPR,RLV,MAN, ,3000/200		3.50	S1S1140300					.00	3	3 1
	CLASS:PRES REG SIZE: 0.56 INCH														
GROVE	M-12951-C MOD 94W	75M52156-2	10000	ABC-V	REG,DOM,N-R,PRS, ,6000/0	46X46	5.25	S1S1S11300					.00	1	0 1
HARRIS	93-250-540		4000	E -V	REG,SPR,N-R,MAN, , 250/0	16X36	5.88	B0S0140300					.00	1	0 1
	CLASS:PRES REG SIZE: 0.75 INCH														
APCO	202B	75M05871-PPRV-7	6000	9D -S	REG,DOM, ,PRS, ,	68X68	.00	S1S1131217					.00	*	* 1
FLOMATC	MOD DA-936		4000	C -V	PRS-CT,GLOBE,PNEU ACT,PIL,	19X19	5.00	S1S1S11200					.00	1	0 1
	CLASS:PRES REG SIZE: 0.75 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL ALT	VALVE MATL OTH	FLOW FACTOR	P/N TOT	M/R UCR	M/R TOT
	SIZE: 0.75INCH (CONTD)															
MAROTTA	230864 MOD RV52CC	75M10090-1	3000	N -S	REG,DOM,RLV,SOL, ,INLT-REDU	18X18	4.58	S	1	S	1	40200	.00	1	0	1
MAROTTA	230884-1 MOD RV53DF	75M08828	3000	BX -S	REG,DOM,RLV,PRS, ,2000/200	27X27	6.50	A	1	S	1	40225	.00	4	1	1
NORGREN	11-024-010		400	AS -V	REG,SPR,RLV,MAN, , 250/10	10X10	3.69	Z	1	8	0	00000	.00	4	0	2
RIVETT	DZ2818	75M08819-1	3000	X -S	BACK-PRS,DIR OP, , 0/160	19X19	3.38	F	1	0	0	00200	.00	14	8	1
TESCOM	26-1222-601		6000	ST -V	REG,DOM,RLV,PRS, ,6000/0	13X13	4.64	S	1	S	1	30213	.50 OD	1	1	1
	CLASS:PRES REG SIZE: 1.00 INCH															
APCO	1354-1038		8000	ST -V	REG,DOM,N-R,PRS, ,6000/0	50X50	5.81	S	1	S	1	31822	.50 OD	1	0	1
BASTIAN	307ONTO		3000	B -V	REG,SPR,RLV,MAN, ,3000/200	38X35	7.00						.00	2	0	2
BASTIAN	307CNTW		4000	E -V	REG,SPR,RLV,MAN, ,3000/200	36X35	7.00						.00	1	0	2
CASHCO	1000HP		3000	FGH-V	REG,SPR,N-R,MAN,CRY, 300/10	10X10	7.94	S	0	S	0	01200	.00	1	0	2
FISHER	TN630-105		150	S -V	REG,SPR,N-R,MAN, , 500/3	10X10	.00	C	1	C	1	01700	.00	1	0	2
FISHER	TYPE 3A 655GR (1.00)		250	P -V	PRS-CT,GLOBE,PNEU ACT,DIR,	62X62	7.25	C	1	S	1	11200	.00	1	0	1
FLOMATC	MOD DA-039 #4771		8000	C -V	PRS-CT,GLOBE,PNEU ACT,PIL,	19X19	5.00	S	1	S	1	11200	.00	1	0	1
GROVE	T-1430 MOD 302B	75M05871-PPRV-1	6000	B -S	REG,DOM,RLV,PRS, ,6000/0	68X68	1.25	S	1	S	1	31200	.50 OD	3	4	1
GROVE	10938A6E MOD 94RR		3500	ABC-V	REG,DOM,RLV,PRS, ,1500/0	13X13	4.50	A	0	S	1	31300	.62 OD	2	0	1
	CLASS:PRES REG SIZE: 1.00 INCH															

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	SOLENOID	OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.00INCH (CONTD)														
GROVE	10989A068A MOD 202B	75M05871-PPRV-4	6000	B -S	REG,DOM,RLV,PRS, ,6000/0	13X13	4.75	S1S1S11300					.38 OD	1	1 1
GROVE	10989A068A MOD 202B	75M05868	6000	ABC-S	REG,DOM,RLV,PRS, ,6000/0	13X13	4.75	S1S1S11300					.38 OD	1	1 1
GROVE	11115K066B MOD 201B	75M01356-1	3600	ABC-S	REG,DOM,N-R,PRS, ,3600/0	19X19	4.75	S1S1S11300					.25 OD	4	0 1
GROVE	11115K066B MOD 201B		3600	ABC-S	REG,DOM,N-R,PRS, ,3600/0	19X19	4.75	S1S1S11300					.25 OD	1	1 1
GROVE	11115K066B MOD 201B	75M01356-2	3600	ABC-S	REG,DOM,N-R,PRS, ,3600/0	19X19	4.75	S1S1S11300					.25 OD	2	0 1
MAROTTA	230434-6000 MOD RV52DY	75M51102	6000	ABC-S	REG,DOM,RLV,SET, ,6000/0	19X19	4.56	S1S1270200					.00	14	14 1
NORGREN	11-002-091		400	AS -V	REG,SPR,N-R,MAN, , 50/1	10X10	4.63	Z1B0B00000					.00	1	0 2
NORGREN	11-024-011		400	AS -V	REG,SPR,RLV,MAN, , 250/10	10X10	3.69	Z1B0B00000					.00	4	0 2
TESCOM	26-1122-401		10000	ST -V	REG,DOM,RLV,PRS, ,9999/0	33X33	3.28	S1S1130213					.50 OD	2	0 1
TESCOM	269-131-1	75M51498-1	3000	ABC-S	REG,SPR,RLV,MAN, , 50/0	19X19	4.90	S1S1120200					.00	1	1 1
VACCO	DL6P3-X465	10428542	6000	BC -V	REG,DOM,RLV,PRS, ,3500/0	68X68	10.50	S1S1130600					3.0 CV	3	1 1
VACCO	DL6P3-X465	75M25569-1	6000	BC -V	REG,DOM,RLV,PRS, ,3500/0	68X68	10.50	S1S1130600					3.0 CV	3	1 1
	CLASS:PRES REG SIZE: 1.25 INCH														
FISHER	TYPE 3A 655GR (1.25)		250	R -V	PRS-CT,GLOBE,PNEU ACT,DIR,	62X62	7.88	C1S1S11200					.00	1	0 1
GROVE	11171HD8149H MOD 311B		3600	ABC-V	REG,DOM,RLV,PRS, ,3600/0	68X68	11.75	S1S1S11600					1.00 OD	1	0 1
	CLASS:PRES REG SIZE: 1.25 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL OTH	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.25INCH (CONTD)													
GROVE	11171H08149J MOD 311B		3600	ABC-V	REG,DOM,RLV,PRS, ,3600/0	68X68	11.75	S1S1S11600				1.00 OD	1	1 1
VACCO	BPR-6P-X466-04	75M25451-1	6000	BC -V	BACK-PRS,DIR OP, ,3500/6000	68X68	8.75	S1S1130614				3.0 CV	2	0 1
VACCO	BPR-6P-X466-04	10429581	6000	BC -V	BACK-PRS,DIR OP, ,3500/6000	68X68	8.75	S1S1130614				3.0 CV	2	0 1
	CLASS:PRES REG SIZE: 1.50 INCH													
APCO	140200-1	75MC4839-1	6000	ABC-S	REG,DOM,N-R,PRS, ,5500/0	68X68	14.00	S0S0140200				.38 OD	8	3 1
APCO	140200-4	75M04839-4	6000	ABC-S	REG,DOM,N-R,PRS, ,5500/0	68X68	14.00	S0S0140200				1.00 OD	4	5 1
FISHER	S202	75MC5871-PPRV-2	25	B -S	REG,SPR,RLV,SET, ,	10X10	.00	C0A0000200				1.00 OD	1	0 2
FISHER	Y611-21		250	R -V	PRS-CT,GLOBE,PNEU ACT,DIR,	10X10	3.75	C1A0A00200				1.19 OD	1	2 1
GROVE	T-1439 MOD 302B		6000	ABC-V	REG,DOM,RLV,PRS, ,6000/0	55X55	11.75	S1S1S11300				.75 OD	1	3 1
GROVE	T-1479 MOD 311B		6000	ST -V	REG,DOM,RLV,PRS, ,6000/0	68X68	11.25	S1S1131200				1.00 OD	1	1 1
GROVE	T-1534 MOD 401F	75M50341-1	3500	ABC-S	REG,DOM,RLV,PRS, ,3000/0	19X19	7.00	S1S1S11300				.38 OD	4	0 1
GROVE	T-1535 MOD 401F	75M50341-2	3500	ABC-S	REG,DOM,RLV,PRS, ,3000/0	19X19	7.00	S1S1S11400				.50 OD	2	0 1
GROVE	T-1536 MOD 401F	75M50341-3	3500	ABC-S	REG,DOM,RLV,PRS, ,3000/0	19X19	7.00	S1S1S11400				.75 OD	4	0 1
GROVE	T-1538 MOD 401F	75M50305-1	6000	ABC-S	REG,DOM,RLV,PRS, ,3000/0	68X68	14.00	S1S1S11400				1.00 OD	5	4 1
GROVE	T-1541 MOD 401F	75M50305-4	6000	ABC-S	REG,DOM,RLV,PRS, ,3000/0	68X68	4.00	S1S1S11400				1.00 OD	5	1 1
	CLASS:PRES REG SIZE: 1.50 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	SOLE	OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.50INCH (CONTD)														
GROVE	11215H08149A MOD 311B		6000	ABC-V	REG,DOM,RLV,PRS, ,	58X68	11.75	C0S1S11200					1.00 OD	1	2 1
MAROTTA	229894-6000 MOD RV53DA	11M00777	4500	BX -S	REG,DOM,RLV,PRS, ,4500/0	19X19	6.50	S1S1142500					.00	2	0 1
	CLASS:PRES REG SIZE: 2.00 INCH														
APCO	1355C16K-T32F25		6000	ST -V	REG,DOM,N-R,PRS, ,6000/0	63X63	18.62	S0S1130200					12.0 CV	1	1 1
APCO	1357B32K-T32P15		3600	ST -V	REG,DOM,N-R,PRS, ,3600/0	10X10	11.75	C2S1130200					81.0 CV	1	0 2
APCO	1455C16K-T32P		6000	ST -V	BACK-PRS,DOM LD, , 0/6000	10X10	8.00	S1S1131200					1.00 OD	1	1 2
CASH	E-55		400	RFG-V	REG,SPR,N-R,MAN, , 125/10	10X10	5.75	B1B1176300					.00	1	0 2
FISHER	99-45 HG-10	75M05857-FP3-1	125	B -S	REG,DOM, ,PRS, , 100/2	61X61	.00	F1C0801700					.88 OD	1	0 1
	CLASS:PRES REG SIZE: 2.50 INCH														
VACCO	BPR-6P-X469-06	75M25452-1	6000	BC -V	BACK-PRS,DIR OP, ,3500/6000	68X68	12.50	S1S1130200					12.0 CV	2	0 1
VACCO	BPR-6P-X469-06	75M05871	6000	BC -V	BACK-PRS,DIR OP, ,3500/6000	68X68	12.50	S1S1130200					12.0 CV	2	0 1
	CLASS:PRES REG SIZE: 3.00 INCH														
GROVE	M-13940-AJ MOD 311B		6000	ABC-V	REG,DOM,N-R,PRS, ,	68X68	12.38	S1S1S11200					.00	1	1 1
	CLASS:PRES REG SIZE: 3.00 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAL MAT	SEAL TYP	OTHER MATL	FLOW FACTOR	P/N TOT	M/R UCR	M/R TOT
	CLASS:PRES REG SIZE: 4.00 INCH															
GROVE	M-13955-AE MOD 411		6000	ABC-V	REG,DOM,N-R,PRS, ,	68X68	16.75	S1S1S	11200				2.50 OD	1	2	1
GROVE	M-13955-AN MOD 411		6000	ABC-V	REG,DOM,N-R,PRS, ,	68X68	16.75	S1S1S	11200				2.50 OD	1	2	1
GROVE	11288H14319B MOD 411B		6000	ABC-V	REG,DOM,N-R,PRS, ,6000/0	68X68	16.63	S1S1S	11200				2.50 OD	1	3	1
MASON-N	137-3 (4.00)	75MC4406-PPR-1	100	B -S	PRS-CT,GLOBE,PNEU ACT,PIL,	62X62	.00	F1S1S	11900				.00	9	0	
MASON-N	137-3 (4.00)	75M15816-PPR-1	100	AB -S	PRS-CT,GLOBE,PNEU ACT,PIL,	62X62	.00	F1S1S	11900				.00	7	0	1
	CLASS:RELIEF SIZE: 0.25 INCH															
AERVALC	5009-4B-ANN-1		11000		, CP,		.00	S1000	00000				.00	4	0	
AERVALC	5009-4B-8N,P/NINI8900		11000		, CP,	13X13	.00	S1000	06200				.00	6	0	1
ANDGRWD	41JS23-2-4-6	75M05752-HRV-7	7500	H -S	DIR,ANGLE, , 150CP,	100/249	13X13	.00	S1S1121	200			.13 OD	2	0	1
BASTIAN	3127L-200		3000	BDE-V	DIR,INLIN, , 200CP,	100/550	09X00	1.94	B0S0B01	700			.00	1	0	2
CIRSEAL	5133T-4TB-1160	10430135	2500	ABC-S	DIR,INLIN, ,1160CP,		15X13	3.50	S1S1S	10300			.03 OA	3	2	1
CIRSEAL	5159T1-2MP-100	75M25505-1	2500	NSX-V	DIR,INLIN, , 100CP,		09X10	3.00	S1S1S	10200			.03 OA	2	0	2
CORNELS	116-B-100-12	75M50311-11	2800	ABC-S	DIR,INLIN, ,1850CP,		18X73	2.81	S1S1140	200			.00	1	0	1
	CLASS:RELIEF SIZE: 0.25 INCH															

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL OTH	FLOW FACTOR	P/N TOT	M/R UCR	M/R TOT
	SIZE: 0.25INCH (CONTD)														
CORNELS	116-B-100-2	75M50311-2	5000	ABC-S	DIR,INLIN, ,3350CP,	18X73	2.81	S1S1140200				.00	5	0	1
CORNELS	117-B-100-10	75M25564-1	1313	ABC-V	DIR,INLIN, , 875CP,	18X73	2.59	0000000200				.00	2	0	1
CORNELS	117-B-100-10	10437799-1	1313	ABC-S	DIR,INLIN, , 875CP,	18X73	2.59	0000000200				.00	2	0	1
CORNELS	117-B-100-4	10437799-3	1800	ABC-S	DIR,INLIN, ,1000CP,	18X73	2.59	0000000200				.00	1	0	1
CORNELS	118-B-100-28	10426704	6000	A -S	DIR,INLIN, , 400CP,	15X73	2.19					.00	4	0	1
CORNELS	118-B-100-7 55PSI	10437798-3	100	ABC-S	DIR,INLIN, , 55CP,	18X73	2.19	A000000200				.00	2	1	1
CORNELS	118-B-100-7 65PSI	10437798-2	100	ABC-S	DIR,INLIN, , 65CP,	18X73	2.19	A000000200				.00	1	0	1
J,P&C	5120T-4TB-2420		1200	ST -V	DIR,INLIN, ,2400CP,1530/2400	15X13	3.92	S1S1S11200				.03	OA	1	0	1
J,P&C	5133T-4TB-200		2500	AZE-V	DIR,INLIN, , 200CP, 160/240	15X13	3.32	S1S1S10300				.03	OA	4	0	1
J,P&C	5159T-4TT-2000	75M06178-1	2500	BCX-S	DIR,INLIN, ,2000CP,1530/2400	15X15	4.15	S1S1S10300				.03	OA	6	0	1
J,P&C	5159T1-4NV-1250	10430079-18	2500	ABC-S	DIR,INLIN, ,1250CP,1070/1410	18X19	3.92	S1S1S10300				.03	OA	1	0	1
J,P&C	5159T1-4NV-140	10430079-3	2500	ABC-S	DIR,INLIN, , 140CP, 112/168	18X19	3.32	S1S1S10300				.03	OA	3	1	1
J,P&C	5159T1-4NV-280	10430079-10	2500	ABC-S	DIR,INLIN, , 280CP, 200/300	18X19	3.32	S1S1S10300				.03	OA	2	0	1
J,P&C	5159T1-4NV-55	10430079-8	2500	ABC-S	DIR,INLIN, , 55CP, 56/84	18X19	3.32	S1S1S10300				.03	OA	1	0	1
J,P&C	5159T1-4NV-600	10430079-6	2500	ABC-S	DIR,INLIN, , 600CP, 500/750	18X19	3.92	S1S1S10300				.03	OA	2	0	1
J,P&C	5159T1-4NV-70	10430079-5	2500	ABC-S	DIR,INLIN, , 70CP, 56/84	18X19	3.32	S1S1S10300				.03	OA	1	0	1

CLASS:RELIEF
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL OTH	FLOW FACTOR	P/N TOT	M/R UCR	M/R TOT
	SIZE: 0.25INCH (CONTD)														
J,P&C	5159T1-4NV-84	10430079-14	2500	ABC-S	DIR,INLIN, , 84CP, 80/120	18X19	3.32	S1S1S10300				.03	0A 7	0	1
J,P&C	5159T1-4NV-850	10430079-10	2500	ABC-S	DIR,INLIN, , 850CP, 680/1020	18X19	3.92	S1S1S10300				.03	0A 2	0	1
J,P&C	5159T1-4NV-90	10430079-9	2500	ABC-S	DIR,INLIN, , 90CP, 80/120	18X19	3.32	S1S1S10300				.03	0A 1	0	1
J,P&C	5159T1-4ZV-140	10430079-3	2500	ABC-S	DIR,INLIN, , 140CP, 112/168	20X19	3.32	S1S1S10300				.06	0A 2	0	1
J,P&C	5159T1-4ZV-250	10430079-2	2500	ABC-S	DIR,INLIN, , 250CP, 200/300	20X19	3.32	S1S1S10300				.03	0A 1	0	1
J,P&C	5159T1-4ZV-70	10430079-5	2500	ABC-S	DIR,INLIN, , 70CP, 56/84	20X19	3.32	S1S1S10300				.03	0A 1	0	1
J,P&C	5159T1-4ZV-90	10430079-9	2500	ABC-S	DIR,INLIN, , 90CP, 80/120	20X19	3.32	S1S1S10300				.03	0A 1	0	1
J,P&C	5159T14NV-250	10430079-2	2500	ABC-S	DIR,INLIN, , 250CP, 200/300	18X19	3.32	S1S1S10300				.03	0A 1	0	1
J,P&C	524T1-2MP-20	75M15214-PRV-2	200	B -S	DIR,INLIN, , 20CP, 10/30	09X10	.98	S1S1S10500				.00	5	0	2
J,P&C	559T-2M-10	75M25529-1	200	STX-V	DIR,INLIN, , 10CP, 5/15	09X73	.98	S1S1S10300				.00	2	0	2
KAHN	1-2076	75M51665-2	5000	ABC-S	DIR,INLIN, ,3350CP,	20X73	2.66	S1S1140200				.00	1	1	1
KAHN	1-2122	75M51665-14	1500	ABC-S	DIR,INLIN, , 930CP,	20X73	2.66					.00	2	1	1
KUNKLE	FIG 48-A (.25)		225	AS -V	DIR,INLIN, , 50CP, 20/225	09X73	.66	B0B0B00000				.00	2	0	2
MAROTTA	231074-22 MOD PRV4M	75M09286-3	3000	B -S	DIR,INLIN, ,1500CP, ADJ CP	19X19	4.35	A1S1140200				.00	9	2	1
MAROTTA	231074-23 MOD PRV4M	75M09286-5	3000	B -S	DIR,INLIN, , CP, ADJ CP	19X19	4.35	A1S1140200				.00	1	0	1
MAROTTA	231074-34 MOD PRV4M	11M00789	1500	B -S	DIR,INLIN, , CP, ADJ CP	19X19	4.35	S1S1140200				.00	1	0	1

CLASS:RELIEF
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	VALVE MATL STEM	VALVE MATL SEAT	VALVE MATL OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.25INCH (CONTD)													
SAGE	1-2028-4	75M04315	3000	95T-V	DIR,INLIN, , 175CP, NON-ADJ	09X10	3.88	S1S11212S1				.19 OD	2	2 2
SAGE	1-2133(211-48-4AA)175	10430079-7	3000	ABC-S	DIR,INLIN, , 175CP, ADJ CP	18X19	4.25	S1S11212S1				.19 OD	2	0 1
	CLASS:RELIEF SIZE: 0.38 INCH													
ANDGRWD	2-8038-1	75M08415-1	4500	BX -S	DIR,ANGLE, , 950CP, 550/1099	19X19	.00	S1S11312S1				.13 OD	5	6 1
ANDGRWD	2-8038-10	75M08415-10H	4500	3X -S	DIR,ANGLE, ,3300CP,2000/3399	19X19	1.31	S1S1111202				.13 OD	3	0 1
ANDGRWD	2-8038-2	75M08415-2	4500	BX -S	DIR,ANGLE, ,1900CP,1100/1999	19X19	.00	S1S11312S1				.13 OD	7	8 1
ANDGRWD	2-8038-3	75M08415-3	4500	BX -S	DIR,ANGLE, ,3300CP,2000/3399	19X19	.00	S1S11312S1				.13 OD	5	4 1
ANDGRWD	2-8038-5	75M08415-5H	4500	BX -S	DIR,ANGLE, ,3300CP,2000/3399	19X19	1.31	S1S1131202				.13 OD	6	0 1
ANDGRWD	2-8038-6	75M08415-6	4500	BX -S	DIR,ANGLE, , 950CP, 550/1099	19X19	.00	S1S11112S1				.13 OD	2	1 1
ANDGRWD	2-8038-8	75M08415-8	4500	BX -S	DIR,ANGLE, ,3300CP,2000/3399	19X19	.00	S1S11112S1				.13 OD	8	2 1
ANDGRWD	3JS34-3 (81JS34-3)		9780	ABC-S	DIR,ANGLE, ,3300CP, ADJ CP	13X13	.00	S1S1020213				.19 OD	2	0 1
CIRSEAL	5159T1-6ZZ-150	75M02172-5	2500	ABC-S	DIR,INLIN, , 150CP,	20X20	2.07	S1S1S10200				.00	1	0 1
J,P&C	5159T1-6NN-1500	75M02172-8	2500	ABC-S	DIR,INLIN, ,1500CP,1250/1950	18X18	4.54	S1S1S10300				.03 OA	2	0 1
J,P&C	5159T1-6NN-2040	75M02172-7	2500	ABC-S	DIR,INLIN, ,2040CP,1530/2400	18X18	4.54	S1S1S10300				.03 OA	2	0 1
J,P&C	5159T1-6NN-220	75M02172-9	2500	ABC-S	DIR,INLIN, , 220CP, 200/300	18X18	3.64	S1S1S10300				.06 OA	2	0 1
	CLASS:RELIEF SIZE: 0.38 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	VALVE MATL INTMT	VALVE MATL SEAL	VALVE MATL SHAFT	VALVE MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.38INCH (CONTD)														
J,P&C	5159T1-6NN-380	75M02172-1	2500	ABC-S	DIR,INLIN, , 380CP, 320/480	18X18	3.64	S1S1S10300					.06	OA 2	0 1
J,P&C	5159T1-6NN-850	75M02172-3	2500	ABC-S	DIR,INLIN, , 850CP, 680/1020	18X18	4.54	S1S1S10300					.06	OA 3	0 1
J,P&C	5159T1-6NV-40	10430079-1	2500	ABC-S	DIR,INLIN, , 40CP, 24/41	18X19	3.47	S1S1S10300					.06	OA 1	0 1
J,P&C	5159T1-6NV-70	10430079-12	2500	ABC-S	DIR,INLIN, , 70CP, 56/84	18X19	3.47	S1S1S10300					.06	OA 1	0 1
J,P&C	5159T1-6TT-165	75M05871-PRV-13	2500	STX-V	DIR,INLIN, , 165CP, 160/240	15X15	3.64	S1S1S10300					.06	OA 1	0 1
J,P&C	5159T1-6TT-65	75M15044-PRV-5	2500	BC -S	DIR,INLIN, , 65CP, 56/84	15X15	3.64	S1S1S10300					.06	OA 9	1 1
J,P&C	5159T1-6TT-65	75M09618-PRV-6	2500	BC -S	DIR,INLIN, , 70CP, 56/84	15X15	3.64	S1S1S10300					.06	OA 4	1 1
J,P&C	5159T1-6ZV-40	10430079-1	2500	ABC-S	DIR,INLIN, , 40CP, 24/41	20X19	3.47	S1S1S10300					.06	OA 1	0 1
J,P&C	5159T1-6ZV-70	10430079-12	2500	ABC-S	DIR,INLIN, , 70CP, 56/84	20X19	3.47	S1S1S10300					.06	OA 6	0 1
REPUBLC	54CL-649X87-6YT	75M05871-PRV-8	85C	AST-V	DIR,ANGLE, , 825CP, 630/85C	27X27	.00	S1S1S11412					.00	8	8 1
REPUBLC	54CL-660-6SS1	75M05871-PRV-9	7000	BC -S	DIR,ANGLE, ,3850CP,1000/7000	15X15	.00	S1S1S10212					.00	2	1 1
REPUBLC	54CL-660-6SS1	75MC5871-PRV-1C	7CCC	BC -S	DIR,ANGLE, , 1CP,1000/7000	15X15	.00	S1S1S10212					.00	2	1 1
REPUBLC	54CL649XB-2-6YT	75M05871-PRV-6	50	AST-V	DIR,ANGLE, , 33C?, 10/50	27X27	.00	S1S1S11214					.00	4	4 1
REPUBLC	649X-2-6	75MC9618-PRV-5	5C	BC -S	DIR,ANGLE, , 33CP, 10/5C	27X27	.00	S1S1S11214					.00	4	0 1
REPUBLC	649X-4-6	75MC5871-PRN-7	25C	AST-V	DIR,ANGLE, , 125CP, 115/250	27X27	.00	S1S1S11214					.00	6	3 1
REPUBLC	649X-7-6	75M09618-PRV-2	850	BC -S	DIR,ANGLE, , 325CP, 630/850	27X27	.00	S1S1S11214					.00	6	1 1

CLASS:RELIEF
SIZE: 0.38 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAL	VALVE MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.38INCH (CONTD)													
REPUBLC	649XB-2-6-T	75M15044-PRV-4	50	BC -S	DIR,ANGLE, , 33CP, 10/50	27X27	.00	S1S1S11214				.00	1	0 1
REPUBLC	649XB-7-6-T	75M15044-PRV-1	85C	BC -S	DIR,ANGLE, , 825CP, 630/850	27X27	.00	S1S1131412				.00	9	1 1
REPUBLC	649XB-7-6-T	75MC9220-PRV-2	850	BC -S	DIR,ANGLE, , 825CP, 630/850	27X27	.00	S1S1131412				.00	1	0 1
REPUBLC	660-6	75M15044-PRV-3	7CCC	BC -S	DIR,ANGLE, ,3850CP,1000/7000	27X27	.00	S1S1130212				.30 OD	9	1 1
REPUBLC	660-6	75MC9618-PRV-4	7000	BC -S	DIR,ANGLE, ,3850CP,1000/7000	13X13	.00	S1S1130212				.30 OD	4	0 1
	CLASS:RELIEF SIZE: 0.50 INCH													
ANDGRWD	3BS810-3			S -V	DIR,ANGLE, , CP, ADJ CP		.00	S1S1000000				.19 OD	1	1
ANDGRWD	41JS44-2		7500	AST-V	DIR,ANGLE, , 150CP, 100/249	13X13	.00	S1S1121200				.13 OD	1	0 1
ANDGRWD	81JS44-4		4CCC	SF -V	DIR,ANGLE, , 150CP, ADJ CP	13X13	.00	S1S11312S3				.25 OD	1	0 1
BASTIAN	A42#NB				, 200CP,		.00					.00	1	0
BASTIAN	B9432A		45C	FGH-V	DIR,INLIN,CRY, 300CP, 75/450	09X00	2.00	B0S0B01700				.00	1	0 2
BASTIAN	3129L-150		3000	BDE-V	DIR,INLIN, , 150CP, 100/550	09X10	2.56	B0S0B01700				.00	1	0 2
BASTIAN	3129P		3CCC	BDE-V	DIR,INLIN, , 90CP, ADJ CP	09X10	2.56	B0S0B01700				.00	1	0 2
CASH	FW		200	N -V	DIR,ANGLE, , 125CP, 75/200	09X10	1.19	B1B1056000				.00	2	0 2
CIRSEAL	8534ST-888-3300		10500	NSX-V	DIR,INLIN, ,3300CP,	13X13	4.59	S1S1130200				.13 OA	1	0 1
	CLASS:RELIEF SIZE: 0.50 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	TRIM	SEAT	O-RING	FLOW FACTOR	P/N TOT	M/R UCR TOT
SIZE: 0.50INCH (CONTD)														
CIRSEAL	5120T-8TT-2350		2500	ST -V	DIR,INLIN, ,2240CP,	15X15	4.47	S1S1S11200				.03 OA	2	0 1
CIRSEAL	5120T-8TT-2400	10430135	2500	ABC-S	DIR,INLIN, ,2350CP,	15X15	4.47	S1S1S11200				.03 OA	1	0 1
CIRSEAL	5159T-4MP-435		2500	ABC-V	DIR,INLIN, , 435CP,	09X10	2.91	S1S1S10200				.06 OA	6	0 2
CIRSEAL	5159T-8TB-180		2500	CDA-V	DIR,INLIN, , 180CP,	15X13	2.91	S1S1S10200				.06 OA	2	0 1
CIRSEAL	5379T1-8VV-1200	75M51166-1	7800	ABC-S	DIR,INLIN, ,1200CP,1070/1410	19X73	1.86	S1S1140200				.13 OD	1	1 1
CIRSEAL	5379T1-8VV-5200	75M51166-2	7800	ABC-S	DIR,INLIN, ,5200CP, 890/7560	19X73	1.86	S1S1140200				.13 OD	1	1 1
FL-MECH	44-TG-8	75M25557-1	8000		DIR,ANGLE, , CP, ADJ CP	13X13	.00					.31 OD	9	0
J,P&C	D559T1-8D-4	75M08617-3	200	B -S	DIR,INLIN, , 4CP, 2/6	27X73	1.26	S1S1S10300				.00	6	0 1
J,P&C	5379T1-8VV-1800	75M51166-3	2700	ABC-S	DIR,INLIN, ,1800CP,1500/2075	19X19	1.86	S1S1140300				.13 OD	1	0 1
J,P&C	5379T1-8VV-5200	75M51166-2	7800	ABC-S	DIR,INLIN, ,5200CP,3890/7560	19X19	1.86	S1S1140300				.13 OD	1	0 1
J,P&C	559T1-8D-4	75M08617-3	200	B -S	DIR,INLIN, , 4CP, 2/6	27X73	1.26	S1S1S10300				.00	8	0 1
KUNKLE	FIG 130		4000	AS -V	DIR,ANGLE, , CP,	09X73	.00	B0S0S00000				.00	10	0 2
KUNKLE	FIG 189-C (.50)		5000	AS -V	DIR,ANGLE, , CP,1000/5000	10X10	1.75	S0S0121200				.00	1	1 2
KUNKLE	FIG 39-A (.50)		225	AS -V	DIR,INLIN, , 150CP, 20/225	09X73	.00	B0B0B0G000				.00	1	0 2
KUNKLE	FIG 87-T (.50)		300	AS -V	DIR,ANGLE, , 60CP, 150/300	09X10	1.06	B5B5120000				.00	1	0 2
KUNKLE	FIG 87-TG (.50)		300	AS -V	DIR,ANGLE, , 150CP, 150/300	09X10	1.06	B5B5120000				.00	4	0 2

CLASS:RELIEF
SIZE: 0.50 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.50INCH (CONTD)													
LADEWIG	1170S		10000	STB-V	DIR,ANGLE, , CP,		.00					.00	1	0 1
MISSION	44-T6-5		6000	BC -V	DIR,ANGLE, , CP, ADJ CP	10X10	2.19	S1S1201202				.31 OD	1	0 2
MISSION	44-T6-8		9000	BC -V	DIR,ANGLE, ,3300CP, ADJ CP	10X10	2.19	S1S1201202				.31 OD	2	0 2
MISSION	6W73 18197-4-4		6000		, CP,		.00					.00		0
MMM	1541DRL		250	SA -V	DIR,ANGLE, , 250CP, ADJ CP	09X10	1.25	B686860000				.04 0A	5	2 2
MMM	1543D		300	SA -V	DIR,ANGLE, , 35CP, ADJ CP	09X10	1.25	S1S1S10000				.11 0A	1	0 2
MMM	1905 SPECIAL	75M17753-HRV-3		HCD-S	, CP,		.00					.00	*	*
MMM	1975 SPECIAL	75M17763-HRV-1		HCD-S	, CP,		.00					.00	*	*
PNUDRAY	1218-4	75M12001	3000	X -S	DIR,INLIN, ,2240CP,1430/2300	19X19	6.00	A1S2S20000				.00	2	0 1
REPUBLC	54CL649XB-4-8YT	75MC5871-PRV-12	250	BC -S	DIR,ANGLE, , 165CP, 115/250	27X27	.00	S1S1S11214				.00	2	0 1
REPUBLC	6458-3-8-1-55	75M15329-FRV-3	125	YLM-S	DIR,ANGLE, , 55CP, 40/125	13X13	.00	S1S1S10202				.00	2	0 1
SAGE	1-2289(233-8B-8MM)20		3000	ST -V	DIR,ANGLE, , 20CP, ADJ CP	09X09	.00	S1S11212S1				.19	6	0 2
SAGE	1-2289(233-8B-8MM)2000		3000	ST -V	DIR,ANGLE, ,2000CP, ADJ CP	09X09	.00	S1S11212S1				.19 OD	1	0 2
SAGE	1-2289(233-8B-8MM)45		3000	ST -V	DIR,ANGLE, , 45CP, ADJ CP	09X09	.00	S1S11212S1				.19 OD	2	0 2
SAGE	1-2305(234-8B-8MM)45		3000	ST -V	DIR,ANGLE, , 45CP, ADJ CP	09X09	.00	S1S1S112S1				.19 OD	11	0 2
SAGE	1-4384(402-8D-16AA)165		3000	BST-V	DIR,ANGLE, , 165CP, ADJ CP	13X13	.00	S1S1S112S1				.38 OD	1	0 1

CLASS:RELIEF
SIZE: 0.50 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL SHAFT	VALVE MATL OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.50INCH (CONTD)														
	**********														
SAGE	1-4465(401-8D-16AA)		3000	ABC-V	DIR,ANGLE, ,1650CP, ADJ CP	13X13	.00	S1S11312S1					.33 OD	1	0 1
SAGE	1-4511(401-8D-16AC)850		3000	ABC-V	DIR,ANGLE, , 850CP, ADJ CP	13X10	.00	S1S11212S1					.38 OD	1	0 1
SAGE	1-5273(511-8B-8AA)6600	75M51166	10000	AB -V	DIR,ANGLE, ,6600CP, ADJ CP	19X19	.00	S1S11412S1					.19 OD	1	0 1
SAGE	1-5274(511-8B-8AA)3300	75M51166-2	5000	ABC-S	DIR,ANGLE, ,3300CP, ADJ CP	19X19	.00	S1S11412S1					.19 OD	1	0 1
SAGE	1-5274(511-8B-8AA)3500	75M51166-2	5000	ABC-S	DIR,ANGLE, ,3500CP, ADJ CP	19X19	.00	S1S11412S1					.19 OD	2	0 1
SAGE	1-5275(511-8C-8AA)2700	75M51279-1	3000	E -S	DIR,ANGLE, ,2700CP, ADJ CP	19X19	.00	S1S11312S1					.25 OD	1	1 1
SAGE	1-5343(511-8C-8AA)2700	75M51279-1	10000	E -S	DIR,ANGLE, ,2700CP, ADJ CP	19X19	.00	S1S11312S1					.25 OD	1	0 1
SCOTT	312		250	AS -V	DIR,ANGLE, , 355CP, ADJ CP	U9X10	.00	B1B1B100B0					.00	5	0 2
WATTS	N30L		175	N -V	DIR,ANGLE, , CP,105/175	09X10	.00	B1B1B11700					.00	3	0 2
	**********														
	CLASS:RELIEF														
	SIZE: 0.56 INCH														
	**********														
SAGE	1-2118 NEW P/N 1-2118A		7000	BST-V	DIR,INLIN, ,6600CP, NON-ADJ	50X50	7.75	S1S11312S1					.19 OD	1	1 1
	**********														
	CLASS:RELIEF														
	SIZE: 0.75 INCH														
	**********														
ANDGRWD	ILG-68-6 (81S58-6)		2113		DIR,ANGLE, , 55CP, ADJ CP	10X10	.00	S1S1121213					.00	1	0 2
	**********														
	CLASS:RELIEF														
	SIZE: 0.75 INCH														
	**********														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	VALVE MATL STEM	VALVE MATL SEAT	VALVE MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
SIZE: 0.75INCH (CONTD)														
CIRSEAL	5159T-12TB-1160		2500	NSX-V	DIR,INLIN, ,1160CP,	15X13	4.77	S1S1S10200				.13 0A	1	0 1
DENISON	R1V12-513		5000	X -V	PIL,ANGLE, , CP, 100/3000	10X10	3.19	S1S1S11200				.00	4	0 2
DENISON	R1V12-545-S6	75M06650-1	5000	X -S	DIR,ANGLE, ,3450CP, 100/5000	30X30	3.19	S1S1S11200				.00	2	0 1
J,P&C	5120T-12TT-100	10423899	2500	E -S	DIR,INLIN, , 100CP, 80/120	15X15	4.52	S1S1S11200				.13 0A	1	0 1
KUNKLE	FIG 83 (.75)		300	AS -V	DIR,ANGLE, , CP, 150/300	09X10	1.50	85B5B50000				.00	1	0 2
KUNKLE	FIG 86 (.75)		150	AS -V	DIR,INLIN, , 150CP, 0/150	09X73	2.59	B1B1B10000				.00	1	0 2
KUNKLE	FIG 87-T (.75)		300	AS -V	DIR,ANGLE, , 150CP, 150/300	09X10	1.44	85B5120000				.00	2	0 2
LONEGRN	12-W-200M		650	AS -V	DIR,ANGLE, , CP, ADJ CP	10X10	.00	B1S1B01280				.50 E0	2	3 2
MISSION	151301-2110 (0.75)		3000	ABC-V	DIR,ANGLE, , CP, 50/1000	10X10	1.88	S1S1121200				.38 0D	1	0 2
MISSION	151309-2120		3000	ABC-V	DIR,ANGLE, , 122CP,1000/9999	68X68	2.25	S1S1131200				.38 0D	2	0 1
MISSION	152101-2110		15000	ABC-V	DIR,ANGLE, , 55CP, 50/1000	10X10	2.38	S1S1121200				.25 0D	2	0 1
MISSION	44-B-26-TG	75M05871-PRV-14	2000	BC -V	DIR,ANGLE, , 825CP, ADJ CP	68X68	2.56	S1S1201202				.31 0D	1	0 1
MISSION	44-2-TG-12		12000	BC -V	DIR,ANGLE, , CP, ADJ CP	13X13	2.75	S1S1201202				.31 0D	1	0 1
MISSION	44B-2G-TG-11		15000	BC -V	DIR,ANGLE, ,1160CP, ADJ CP	68X68	2.78	S1S1130200				.25 0D	1	1 1
PAULCHM	PRV-912-T-150		225	ST -V	DIR,INLIN, , 150CP, 125/180	13X13	5.38	S1S1120000				.84 0D	2	2 1
REPUBLC	A649X8-3-12T	75M05867-FRV-2	125	Y -S	DIR,ANGLE, , 60CP, 40/125	27X27	.00	S1S1S11200				.00	5	0 1

CLASS:RELIEF
SIZE: 0.75 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.75INCH (CONTD)													
REPUBLC	A649XB-4-12T	75M05867-FRV-1	250	Y -S	DIR,ANGLE, , 200CP, 115/250	27X27	.00	S1S1S11200				.00	1	0 1
REPUBLC	645B-6-12-T	11M00796	650	X -S	DIR,ANGLE, , 450CP, 430/650	13X13	3.72	S1S1S11200				.00	4	0 1
REPUBLC	648XB-3-12-1-60	75M15329-FRV-4	125	YLM-S	DIR,ANGLE, , 60CP, 40/125	29X27	.00	S1S1S10202				.00	6	0 1
REPUBLC	648XB-4-12-T-200	75M15329-FRV-5	250	YLM-S	DIR,ANGLE, , 200CP, 115/250	29X27	.00	S1S1S11212				.00	1	0 1
REPUBLC	660-12-SS-1	11M00681	7000	B -S	DIR,ANGLE, , CP, ADJ CP	13X13	1.59	S1S1S10200				.30 OD	1	0 1
SAGE	1-4366(402-12D-16MC)75		3000	STN-V	DIR,ANGLE, , 75CP, ADJ CP	09X10	.00	S1S1S11201				.38 OD	1	0 2
	CLASS:RELIEF SIZE: 1.00 INCH													
CIRSEAL	5133T-16TB-3300	10430135	2500	ABC-S	DIR,INLIN, ,3300CP,	15X13	6.73	S1S1S10300				.13 OA	1	0 1
CIRSEAL	5159T-16TB-60	75M02172	2500	NPS-V	DIR,INLIN, , 60CP,	15X13	5.24	S1S1S10200				.20 OA	1	0 1
CIRSEAL	5159T-8MP-150		2500	NSX-V	DIR,INLIN, , 150CP,	09X10	5.24	S1S1S10200				.20 OA	1	0 2
CRANE	2611		250	NP -V	DIR,ANGLE, , 50CP, 25/300	09X10	2.00	B2B2B2B200				.00	1	0 2
CRYOVAC	V-1046			FGH-V	DIR,INLIN,CRY, 10CP,	88X73	2.50	S1AUS10600				.00	19	0 3
CRYOVAC	03522.48 (87-TG)		500	GS -V	DIR,ANGLE, , 150CP, 0/300	09X10	2.00	B1B1B11200				.00	1	0 2
FISHER	32-1			T -V	DIR, , CP, 2/38		.00					.00	1	0
FL-MECH	MOD 44-3-TG-10 2-920	75M50332	16000	ABC-S	DIR,ANGLE, ,8000CP,	68X69	3.33	S1S1141400				.00	1	0 1
	CLASS:RELIEF SIZE: 1.00 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL ACTR	VALVE MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
SIZE: 1.00INCH (CONTD)															
FL-MECH	2-1084	10430216-9	210	ABC-S	DIR,ANGLE, ,140CP,	19X19	2.13	S1S1121400					.50 OD	1	0 1
FL-MECH	2-1579	10430216-15	1800	ABC-S	DIR,ANGLE, ,1200CP,	19X19	2.13	S1S1121400					.50 OD	7	0 1
FL-MECH	2-1582	10430216-17	110	ABC-S	DIR,ANGLE, , 75CP,		.00						.00	10	1 1
FL-MECH	2-846	10430216-6	90	ABC-S	DIR,ANGLE, , 60CP,	19X19	2.13	S1S1121400					.50 OD	1	0 1
FL-MECH	2-847	10430216-3	1313	ABC-S	DIR,ANGLE, , 875CP,	19X19	2.13	S1S1121400					.50 OD	5	0 1
FL-MECH	2-916	10430216-5	5250	ABC-S	DIR,ANGLE, ,3500CP,	19X19	2.13	S1S1131400					.50 OD	10	0 1
FL-MECH	2-917	10430216-4	210	ABC-S	DIR,ANGLE, , 140CP,	19X19	2.13	S1S1121400					.50 OD	1	0 1
FL-MECH	2-921	10430216-13	473	ABC-S	DIR,ANGLE, , 315CP,	19X19	2.13	S1S1121400					.50 OD	2	0 1
FL-MECH	2-922	10430216-11	1050	ABC-S	DIR,ANGLE, , 700CP,	19X19	2.13	S1S1121400					.50 OD	2	0 1
FL-MECH	2-925	10430216-14	615	ABC-S	DIR,ANGLE, , 410CP,	19X19	2.13	S1S1121400					.50 OD	4	0 1
KUNKLE	FIG 87 (1.00)		300	AS -V	DIR,ANGLE, , 150CP, 150/300	09X10	1.63	B5B5B50000					.00	1	0 2
KUNKLE	FIG 87-C (1.00)		300	AS -V	DIR,ANGLE, , CP, 150/300	09X10	1.63	B5B5B50000					.00	2	2 2
KUNKLE	FIG 87-TG (1.00)		300	AS -V	DIR,ANGLE, , 125CP, 150/300	09X10	1.63	B5B5120000					.00	4	0 2
LONEGRN	D-100/L3 (120-CP)	75M05752-HRV-1	275	H -S	DIR,ANGLE,CRY, 120CP, ADJ CP	62X62	.00	S1S1S1M1S1					.38 E0	9	10 1
LONEGRN	13-W-201 (350-CP)		400	AS -V	DIR,ANGLE, , 350CP, ADJ CP	10X10	.00	F1S0S00000					.62 E0	8	2 2
LONERGN	D-100/L3	75M17761-LRV-1	275	G -S	DIR,ANGLE,CRY, CP, ADJ CP	62X62	.00	S1S1S1M1S1					.38 E0	1	0 1

CLASS:RELIEF
SIZE: 1.00 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL SHAFT	VALVE MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.00INCH (CONTD)														
LONERGN	D-10D/L3	75M17763-HRV-6	275	HCD-S	DIR,ANGLE,CRY, CP, ADJ CP	62X62	.00	S	1S	1S	1M	1S1	.38 EO	1	0 1
LONERGN	D-10D/L3 (165-CP)	75M05869-LRV-2	275	G -S	DIR,ANGLE,CRY, 165CP, ADJ CP	62X62	.00	S	1S	1S	1M	1S1	.00	*	* 1
LONERGN	D-10D/L3 (55-CP)	75M05869-LRV-1	275	G -S	DIR,ANGLE,CRY, 55CP, ADJ CP	62X62	.00	S	1S	1S	1M	1S1	.00	*	* 1
LONERGN	D-10D/S4	75M17761-LRV-1C		G -S	DIR,ANGLE, , CP,		.00						.00	*	*
LONERGN	D-10D/S4	75M17763-HRV-14		HCD-S	DIR,ANGLE, , CP,		.00						.00	*	*
LONERGN	D-10D/S4	75M17761-LRV-31		G -S	DIR,ANGLE, , CP,		.00						.00	*	*
LONERGN	D-10E/S4	75M17761-LRV-12		G -S	, CP,		.00						.00	*	*
LONERGN	D-10E/S4	75M17761-LRV-3C		G -S	, CP,		.00						.00	*	*
LONERGN	D-20D/S4	75M17761-LRV-25		G -S	, CP,		.00						.00	*	*
LONERGN	D-20D/S4	75M17761-LRV-24		G -S	, CP,		.00						.00	*	*
LONERGN	D-20D/S4	75M17751-LRV-11		G -S	, CP,		.00						.00	*	*
LONERGN	D-30D/L3	75M17761-LRV-7		G -S	, CP,		.00						.00	*	*
LONERGN	D-30D/S4	75M17751-LRV-2		G -S	, CP,		.00						.00	*	*
LONERGN	D-30F/S4	75M17761-LRV-23		G -S	, CP,		.00						.00	*	*
LONERGN	LCT 11S4-1	75M17763-HRV-8		HCD-S	, CP,		.00						.00	*	*
LONERGN	MOD 1905 E/L3	75M05752-HRV-5	275	H -S	DIR,ANGLE,CRY, 100CP, ADJ CP	62X62	.00	S	1S	1M	1S	100	.00	1	0 1
	CLASS:RELIEF SIZE: 1.00 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE -TO- FACE	VALVE MATL BODY	INDIC	SEAT MATL	SEAL MATL	OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.00INCH (CONTD)														
LUNKHMR	FIG 1213 (1.00)	75M05869-LRV-1	250	G -S	DIR,ANGLE, , 55CP, ADJ CP	09X10	2.88	B3B3B30000					1.00 OD	15	1 2
LUNKHMR	FIG 1213 (1.00)	75M05869-LRV-5	250	G -S	DIR,ANGLE, , 185CP, ADJ CP	09X10	2.88	B3B3B30000					1.00 OD	21	1 2
LUNKHMR	FIG 1213 (1.00)	75M05869-LRV-2	250	G -S	DIR,ANGLE, , 165CP, ADJ CP	09X10	2.88	B3B3B30000					1.00 OD	65	2 2
MAROTTA	225844-343 MOD PRV47	75M08832	2000	BX -S	PIL,INLIN, , 15CP, NON-ADJ	18X18	6.00	A1A11402A1					.00	10	2 1
MAROTTA	225844-531 MOD PRV47	11M00793-1	750	X -S	PIL,INLIN, , CP, NON-ADJ	13X13	6.00	A1A11402A1					.00	3	0 1
MAROTTA	225844-532 MOD PRV47	11M00793-3	750	X -S	PIL,INLIN, , CP, NON-ADJ	13X13	6.00	A1A11402A1					.00	1	0 1
MISSION	151102-1112		10000	ABC-V	DIR,ANGLE, , CP, 50/1000	13X13	1.88	S1S1121300					.25 OD	1	0 1
MISSION	151102-2221		10000	ABC-V	DIR,ANGLE, , CP,1000/9999	13X13	1.88	S1S1131200					.25 OD	4	1 1
MISSION	151301-2110 (1.00)		3000	ABC-V	DIR,ANGLE, , 20CP, 50/1000	10X10	1.88	S1S1121200					.38 OD	1	0 2
MISSION	151301-2120		3000	ABC-V	DIR,ANGLE, ,330CP,1000/9999	10X10	1.88	S1S1131200					.38 OD	37	0 2
MISSION	151302-2110		3000	ABC-V	DIR,ANGLE, , 40CP, 50/1000	13X13	1.88	S1S1121200					.38 OD	4	0 1
MISSION	1520	75M25485-1	200	BF -V	DIR,ANGLE, , 250CP,	10X10	2.38	S1S1120000					.50 OD	14	2 2
MISSION	44-8-TG-2		2000	BC -V	DIR,ANGLE, , CP, ADJ CP		2.56	S1S1201202					.50 OD	1	0 1
MISSION	44B-2G-TG-10	75M05871-PRV-4	6000	BC -S	DIR,ANGLE, ,6600CP, ADJ CP	68X68	3.38	S1S1130200					.33 OD	2	2 1
MMM	1905 E/L3	75M05752-HRV-5		H -S	, 100CP,	62X62	.00	S1S1S10000					.19 OA	13	0 1
MMM	1970C SPECIAL	75M17763-HRV-12		HCO-S	, CP,		.00						.00	*	*
	CLASS:RELIEF SIZE: 1.00 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	MATL TRIM	SEAL MAT	ACTUATOR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.00INCH (CONTD)													
SAGE	1-2072(211 SERIES)825		750	BST-V	DIR,INLIN, , 825CP, ADJ CP	27X27	6.88	S	S	11212	S1	.38 OD	1	0 1
SAGE	1-5267(511-16C-16AA)		10000	ABC-V	DIR,ANGLE, ,6300CP, ADJ CP	19X19	.00	S	S	11312	S1	.25 OD	1	0 1
SAGE	1-5268(511-16C-16AA)		10000	ABC-V	DIR,ANGLE, ,8400CP, ADJ CP	19X19	.00	S	S	11312	S3	.25 OD	2	0 1
SAGE	1-5505(511-16C-16FF)		10000	ST -V	DIR,ANGLE, , CP, ADJ CP	50X50	.00	S	S	12112	S1	.25 OD	1	0 1
SUPEROR	3060-350 PSI MODIFIED	75M15816-PCV-1		Z -S	, CP,		.00					.00	4	0
	CLASS:RELIEF SIZE: 1.25 INCH													
CRANE	2674		500	NP -V	DIR,ANGLE, , 325CP, 25/500	10X10	2.00	B	B	B	17C0	.00	4	0 2
LONEGRN	11-W-202 (72-CP)		400	AS -V	DIR,ANGLE, , 72CP, ADJ CP	09X10	.00	F	1	1	1980	.80 E0	2	0 2
MMM	1542F		300	SA -V	DIR,ANGLE, , CP,		.00					.00	1	1 1
	CLASS:RELIEF SIZE: 1.50 INCH													
FARRIS	26F316		2500	ST -V	DIR,ANGLE, ,1500CP, 10/5000	62X62	6.50	C	2	C	200	.31 0A	11	0
FARRIS	26FB16-920		2500	ST -V	DIR,ANGLE, , 920CP, 10/5000	63X63	6.50	C	2	C	200	.31 0A	1	0 1
FL-MECH	MOD 44-3-TG-2C 1-3325	75MC72C9-2	90	ABC-S	DIR,ANGLE, , 60CP,	68X68	3.50	S	1	12020	0	.80 OD	1	0 1
	CLASS:RELIEF SIZE: 1.50 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAT	VALVE MATL ACTR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.50INCH (CONTD)													
KUNKLE	FIG 87-T (1.50)		300	AS -V	DIR,ANGLE, , 150CP, 150/300	09X10	2.25	B1B5120000				.00	1	0 2
LONEGRN	D-10F/L3 (100-CP)	75M05752-HRV-6	275	H -S	DIR,ANGLE,CRY, 100CP, ADJ CP	62X62	.00	S1S1S1M1S1				.63 E0		1 1
LONEGRN	D-10H/L3 (100-CP)	75M05752-HRV-4	275	H -S	DIR,ANGLE,CRY, 100CP, ADJ CP	62X62	.00					1.00 E0	1	0 1
LONEGRN	D-30F/L3 (300-CP)	75MC5869-LRV-3	720	G -S	DIR,ANGLE,CRY, 300CP, ADJ CP	62X62	.00	S1S1S1M1S1				.63 E0	4	1 1
LONERGN	D-30F/L3 (185-CP)	75M05869-LRV-5	720	G -S	DIR,ANGLE,CRY, 185CP, ADJ CP	62X62	.00	S1S1S1M1S1				.00	*	* 1
LONERGN	D-30F/L3 (300-CP)	75MC5869-LRV-3	720	G -S	DIR,ANGLE,CRY, 300CP, ADJ CP	62X62	.00	S1S1S1M1S1				.00	*	* 1
LONERGN	D-30F/L3 (400-CP)	75M05869-LRV-4	720	G -S	DIR,ANGLE,CRY, 400CP, ADJ CP	62X62	.00	S1S1S1M1S1				.00	*	* 1
LUNKHMR	FIG 1765 (1.50)	75M05869-LRV-4	400	G -S	DIR,ANGLE, , 400CP, ADJ CP	09X10	4.44	B3B3B30000				1.50 OD	10	2 2
LUNKHMR	FIG 1765 (1.50)	75M05869-LRV-3	400	G -S	DIR,ANGLE, , 300CP, ADJ CP	09X10	4.44	B3B3B30000				1.50 OD	3	0 2
MISSION	152302-2120		6000	ABC-V	DIR,ANGLE, , CP,1000/9999	13X13	2.38	S1S1131200				.38 OD	1	1 1
MMM	DWG A1863	75M17753-HRV-5		HCD-S	, CP,		.00					.00	*	*
SWENDMN	X50				, CP,		.00					.00	1	0
	CLASS:RELIEF SIZE: 2.00 INCH													
CRANE	2651		400	RA -V	DIR,ANGLE, , CP, 25/250	09X10	3.00	B2B2B2B200				.00	6	0 2
CRYOVAC	03524.21			ABC-V	DIR,INLIN,CRY, LCP,	88X73	7.84	SUSUSU0600				.00	1	0 3
	CLASS:RELIEF SIZE: 2.00 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	MATL INTERNAL	SEAL	SOFT PART	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 2.00INCH (CONTD)													
FARRIS	26H814		9000	ST -V	DIR,ANGLE, ,3300CP, 10/1955	62X62	6.38	C2C2C2C200				.79 OA	1	0 1
MMM	1980C-2		25C	R -V	DIR,ANGLE, , CP, ADJ CP	09X10	.00	C1S1S1F000				.00	12	1
	CLASS:RELIEF SIZE: 3.00 INCH													
MMM	1906LCL8	75M17761-LRV-14	G	-S	, CP,		.00					.00	*	*
	CLASS:RELIEF SIZE: 4.00 INCH													
ALLIS-C	5848-EP-1		25C	APN-V	PIL,ANGLE, , CP, ADJ CP	61X61	.00	B1B0002300				4.00 OD	1	1 1
BAILEY	SB-4-122	75M25546-1			, CP,	60X60	.00	F1B1000000				.00	4	0 1
MISSION	110-TG-4P6		3CC	B -V	DIR,ANGLE, , 250CP,	62X62	9.00	S1S1121200				2.83 OD	1	1 1
SAGE	1-8017	75M14524-HRV-8		H -S	, CP,		.00					.00		1 1
	CLASS:SOLENOID SIZE: 0.25 INCH													
ASCO	LMX834511		15C	ST -V	SGL,4W,2P,NO,DIR ACT ,	10X10	3.00	B0S0020200				.06 OD	1	3 2
ASCO	X834511		150	ST -V	SGL,4W,2P,NO,DIR ACT ,	10X10	3.00	B0S0020200				.06 OD	1	1 2
	CLASS:SOLENOID SIZE: 0.25 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL ORIFICE	VALVE MATL ACTUATOR	VALVE MATL SEAL	VALVE MATL OTHER	FLOW FACTOR	P/N TOT	M/R UCR	M/R TOT
	SIZE: 0.25INCH (CONTD)															
ASCO	826232		500	AST-V	SGL,2W,2P,NO,DIR ACT,	10X10	1.75	B0S0020014					.1 CV	5	0	2
ASCO	826245		750	ANX-V	, , , , ,	10X10	1.40	B0S0020200					.1 CV	1	1	
ASCO	83002F		125	ANX-V	SGL,3W,2P, ,DIR ACT,	10X10	4.50	B0S0S00000					.25 OD	6	0	
ASCO	8314111		150	ST -V	SGL,3W,2P,NO,DIR ACT,	10X10	2.13	B0S0020200					.3 CV	2	0	2
ASCO	83147	75M15816-PSV-2	80	B -S	, , , , ,	10X10	2.12	B0S0020200					.2 CV	1	0	1
ASCO	831735		125	AST-V	SGL,3W,2P,NC,DIR ACT,	10X10	2.06	B0S1020000					.05 OD	9	0	2
ASCO	831753		160	AST-V	SGL,3W,2P,NO,DIR ACT,	10X10	2.06	B0S1020000					.05 OD	15	0	2
ASCO	8345A1		150	ANX-V	SGL,4W,2P,NO,DIR ACT,	10X10	2.75	Z1S0000000					.06 OD	9	0	2
ASCO	8345A51		150	AS -V	SGL,4W,2P,NO,DIR ACT,	10X10	2.90	Z1S0020000					.06 OD	3	1	2
BARKSDL	10462AH		150		SGL,4W,2P, ,PNEU ACT,	10X10	3.25						.25 OD	8	0	2
MAROTTA	202873-113 MV74	75M05871-PSV-1	750	BC -S	SGL,3W,2P,MP, ,	27X27	.00	A1S1140000					.12 OD	1	2	1
MAROTTA	202873-113 MV74	75M09618-PSV-1	750	BC -S	SGL,3W,2P,MP, ,	27X27	.00	A1S1140000					.12 OD	142	4	1
MAROTTA	202873-113 MV74 E02441	75M05871-PSV-3	3000	BC -S	SGL,3W,2P,MP,DIR ACT,	27X27	1.70	A1S1140212					.12 E0	472	27	1
MAROTTA	202873-113 MV74 E02626	75M15044-PSV-1	3000	BC -S	SGL,3W,2P,MP,DIR ACT,	27X27	1.70	A1S1140212					.12 E0	472	26	1
MAROTTA	202873-113 MV74 E03265	75M01351-1	3000	ABC-S	SGL,3W,2P,MP,DIR ACT,	27X27	1.70	A1S1140212					.12 E0	472	26	1
MAROTTA	222453 MOD 74TB	75M17763-HSV-1		ABC-S	,3W,2P, , ,		.00						.00	*	*	

CLASS:SOLENOID
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL: BODY	TRIM	SEAT MATL	SPRING MATL	OTHER MATL	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.25INCH (CONTD)														
MAROTTA	225884-02 MOD MV74VE	75M08825-1	3000	B -S	SGL,3W,2P,MP,DIR ACT ,S/P	18X18	1.70	A1S1140200					.11 EO	1	1 1
MAROTTA	225884-02 MV74VEE03044	75M08825-3	3000	B -S	SGL,3W,2P,MP,DIR ACT ,S/P	18X18	1.70	A1S1140200					.11 EO	43	12 1
MAROTTA	225884-05 MV74VEE03045	75M08825-2	3000	B -S	SGL,3W,2P,MP,DIR ACT ,S/P	40X40	1.70	A1S1140200					.11 EO	1	1 1
MAROTTA	228154-02 MOD MV100UG	75M08824-1	3000	BX -V	SGL,2W,2P,NC,DIR ACT ,S/P	18X18	2.00	A1S1140200					.11 EO	14	5 1
MAROTTA	228154-02MV100UGE03071	75M08824-4	3000	BX -S	SGL,2W,2P,NC,DIR ACT ,S/P	18X18	2.00	A1S1140200					.11 EO	3	1 1
MAROTTA	228154-05 MOD MV100UG	75M08824-2	3000	BX -S	SGL,2W,2P,NC,DIR ACT ,S/P	19X19	2.00	A1S1140200					.11 EO	1	1 1
MAROTTA	228154-06MV100UGE03071	75M08824-6	3000	BX -S	SGL,2W,2P,NC,DIR ACT ,S/P	19X19	2.00	A1S1140200					.11 EO	6	0 1
MAROTTA	229584-1 MOD MV174	75M01351-2	3000	ABC-S	SGL,3W,2P,MP,DIR ACT ,	19X19	1.71	S1S1130200					.10 EO	22	3 1
MAROTTA	231184-1 MOD MV100AS	75M11869	3000	AB -S	SGL,2W,2P,NO,DIR ACT ,S/P	18X18	2.00	A1S1130200					.12 EO	1	3 1
MAROTTA	806177 MOD MV540PH-1A	75M11936	3000	AB -S	DBL,3W,2P,LP,DIR ACT ,S/P	19X19	1.75	A1S1130212					.09 EO	1	16 1
SKINNER	V933DEH2100		100	ASX-V	D3L,4W,4P,NC,DIR ACT ,	10X10	3.25	Z1S0171780					.1 CV	2	0 2
STERER	11420-3	75M08842	1000	B -S	SGL,4W,2P,NO,DIR ACT ,	19X19	2.50	A3S2140053					.00	8	8 1
STERER	11420-4	11M00788		B -S	, , , , ,		.00						.00	1	0
VALCOR	55C19C1AE		100	R -V	SGL,3W,2P,NC,DIR ACT ,	10X10	1.63	B0S0020200					.10 CD	8	0 2
VALVAIR	SA-509	75M15214-PSV-1	60	B -S	SGL,2W,3P,NC,DIR ACT ,	10X10	.00	Z1S0S01700					.2 CV	3	0 2
VALVAIR	SA-510	75M15214-PSV-2	250	B -S	SGL,2W,2P,NC,DIR ACT ,	10X10	.00	Z1S0S01700					.1 CV	2	0 2

CLASS:SOLENOID
SIZE: 0.25 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	VALVE MATL TRIM	SEAL	SOLT	OTHR	FLOW FACTOR	P/N TOT	M/R UCR	M/R TOT
	SIZE: 0.25INCH (CONTD)															
VALVAIR	SA-511	75M15214-PSV-3	200	B -S	SGL,2W,2P,NO,DIR ACT,	10X10	.00	Z1S0S01700					.1 CV	2	0	2
	CLASS:SOLENOID SIZE: 0.38 INCH															
AIRMATC	40-SS-3-B		200	A -V	DBL,4W,2P,LP,PNEU PIL,	10X10	.00	A3S0020000					.00	1	1	
ANDGRWD	2-8555		200	B -V	SGL,3W,2P,NC,DIR ACT,	13X13	2.00	S1S1120800					.00	1	1	1
ASCO	WPLB831616		250	ANP-V	SGL,3W,2P,NO,PILOT OP,	10X10	4.75	B0S0020000					3.0 CV	1	0	2
ASCO	WPLMX83445M0		250	XNS-V	SGL,4W,2P,NO,DIR ACT, M/O	10X10	2.44	B0S0000000					.5 CV	4	2	2
ASCO	83441		250	XNS-V	SGL,4W,2P,NO,DIR ACT,	10X10	2.44	B0S0020000					.5 CV	32	0	2
ASCO	83472		250	XNS-V	DBL,4W,3P,NC,PILOT OP,	10X10	8.87	B0S0020000					.5 CV	7	0	2
GENCNTR	AV14J1163	75M08839	3200	X -S	DBL,4W,3P,NC,DIR ACT,	19X19	5.00	A1S2000200					.00	6	6	1
GROVE	M-140030		6000	ABC-V	TPL,2W,2P,NO,DIR ACT,	13X13	5.03	A0S1S11400					.09 OD	2	1	1
MAROTTA	204424 MOD MV123	75M15044-PSV-2	3000	BC -S	SGL,3W,2P,MP,DIR ACT,S/P	19X19	2.75	A1S1130200					.19 EO	2	12	1
MAROTTA	204424 MOD MV123	75M05871-PSV-2	3000	BC -S	SGL,3W,2P,MP,DIR ACT,S/P	19X19	2.75	A1S1130200					.19 EO	21	0	1
MAROTTA	204424 MOD MV123	75M15816-PSV-1	3000	B -S	SGL,3W,2P,MP,DIR ACT,S/P	19X19	2.75	A1S1130200					.19 EO	2	0	1
MAROTTA	204424 MODMV123 E01906	104257C1-1	3000	ABC-S	SGL,3W,2P,MP,DIR ACT,S/P	19X19	2.75	A1S1130200					.19 EO	21	12	1
MAROTTA	204424 MODMV123 E02499	75M09618-PSV-2	3000	BC -S	SGL,3W,2P,MP,DIR ACT,S/P	27X27	2.75	A1S1130200					.19 EO	21	12	1
	CLASS:SOLENOID SIZE: 0.38 INCH															

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	VALVE TRIM	VALVE SEAT	MATL ACTL	MATL OTH	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.38INCH (CONTD)														
MAROTTA	205714-5 MV140 E02431	75M04406-PSV-1	1500	B -S	SGL,3W,2P,MP,DIR ACT ,	13X13	2.30	A	1S	1	40	212	.19 E0	11	0 1
MAROTTA	223194 MOD MV123B	75M02986-2	3000	BCX-S	SGL,3W,2P,MP,DIR ACT ,S/P	13X13	2.30	A	1S	1	40	212	.19 E0	5	7 1
MAROTTA	223194 MOD MV123B	75M02986-1	3000	BCX-S	SGL,3W,2P,MP,DIR ACT ,S/P	13X13	2.30	A	1S	1	40	212	.19 E0	3	5 1
MAROTTA	229604 MOD MV123K	10425701-2	3000	ABC-S	SGL,3W,2P,MP,DIR ACT ,S/P	19X19	2.32	S	1S	1	30	200	.19 E0	101	33 1
MAROTTA	229604 MOD MV123K	75M04406-PSV-7	3000	B -S	SGL,3W,2P,MP,DIR ACT ,S/P	19X19	2.32	S	1S	1	30	200	.19 E0	7	1 1
MAROTTA	229604 MV123K E0 2503	75M15816-PSV-7	3000	B -S	SGL,3W,2P,MP,DIR ACT ,S/P	19X19	2.32	S	1S	1	30	200	.19 E0	7	1 1
MAROTTA	229624 MV123KC E0 2716	75M15816-PSV-9	3000	B -S	SGL,3W,2P,MP,DIR ACT ,	19X19	2.32	S	1S	1	30	200	.19 E0	8	0 1
MAROTTA	229634 MOD MV130V	10437739-2	3000	ABC-S	SGL,2W,2P,NC,DIR ACT ,S/P	19X19	2.10	S	1S	1	30	200	.17 E0	14	1 1
MAROTTA	229634 MV130V E0 2332	75M13285-1	3000	X -S	SGL,2W,2P,NC,DIR ACT ,S/P	19X19	2.10	S	1S	1	30	200	.17 E0	2	4 1
MAROTTA	229634 MV130V E0 2532	75M13285-2	3000	B -S	SGL,2W,2P,NC,DIR ACT ,S/P	19X19	2.10	S	1S	1	30	200	.17 E0	1	1 1
MAROTTA	231644 MOD MV123KA	75M13597-CSV-1	3000	AB -S	SGL,3W,2P,MP,DIR ACT ,S/P	19X19	2.32	A	1S	1	30	200	.19 E0	23	0 1
MAROTTA	280147 MOD MV130ED	11M00782	3000	X -S	SGL,2W,2P,NO,DIR ACT ,M/S	13X13	2.10	A	1S	1	27	020	.16 E0	1	0 1
	CLASS:SOLENOID SIZE: 0.50 INCH														
AIRMATC	DS-2-500		200	RTK-V	SGL,2W,2P,NC,DIR ACT ,	10X10	2.75	B	3S	0	02	80	.56 OD	18	0 2
AIRMATC	30-S-5-B		200	A -V	SGL,3W,2P,CO,PNEU PIL,	10X10	3.75	A	3S	0	02	00	.00	14	0 2
	CLASS:SOLENOID SIZE: 0.50 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAL	VALVE MATL ACTR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.50INCH (CONTD)													
ALCO	S37		300	Z -V	SGL,2W,2P,NC,DIR ACT ,	10X10	3.00	B0S0S02000				.44 OD	1	0 2
ASCO	8030A53		15	ASN-V	SGL,2W,2P,NC,DIR ACT ,	10X10	2.75	B0S0020000				.8 CV	1	0 2
ASCO	8210A94		100	XNS-V	SGL,2W,2P,NC,DIR ACT ,	10X10	2.75	B0S0020000				3.5 CV	8	0 2
ASCO	8210B12		250	XNS-V	SGL,2W,2P,NO,PILOT OP,	10X10	2.75	B0S0020000				3.6 CV	8	0 2
ASCO	8276A19		9	XNS-V	SGL,2W,2P,NO,DIR ACT ,	10X10	2.50	B0S0S00000				1.3 CV	2	0 2
ASCO	8300A74	75M15816-PSV-6	20	AB -S	SGL,3W,2P,NO,DIR ACT ,	10X10	4.75	B0S0S00000				1.0 CV	12	2 2
ASCO	8300A74-G	75M04406-PSV-6	20	AB -S	SGL,3W,2P,NO,DIR ACT ,	10X10	4.75	B0S0S00000				1.0 CV	12	2 2
MAROTTA	803664-1 MOD MV583H	11M00785	3000	AX -S	SGL,3W,2P,MP,DIR ACT ,	13X13	2.63	A1S1140212				.22 EO	2	0 1
MAROTTA	803664-10461 MODMV583H	11M00816	1500	AX -S	SGL,3W,2P,NC,DIR ACT ,S/P	13X13	2.63	S1S1140200				.19 EO	2	0 1
MAROTTA	805614 MOD MV583-4A		175	N -V	SGL,3W,2P,MP,DIR ACT ,S/P	13X13	2.63	S1S1131700				.30 EO	8	10 1
MAROTTA	805764-1112 MOD MV510H	11M00783	1500	AX -S	SGL,2W,2P,NC,DIR ACT ,	13X13	3.00	S1S1130200				.24 EO	1	0 1
MAROTTA	806097-1 MOD MV510H-2A	75M08823-3	3000	BX -S	SGL,2W,2P,NC,DIR ACT ,S/P	18X18	3.00	S1S1140200				.20 EO	6	3 1
MAROTTA	806097-5 MOD MV510H-2A	75M08823-4	3000	3X -S	SGL,2W,2P,NC,DIR ACT ,S/P	19X19	3.00	S1S1140212				.20 EO	43	46 1
MAROTTA	806098 MOD MV583H-2A	75M09285-1	3000	BX -S	SGL,3W,2P,NC,DIR ACT ,S/P	19X19	2.63	S1S1141200				.19 EO	4	2 1
MAROTTA	806098-1 MOD MV583H-2A	75M09285-2	3000	BX -S	SGL,3W,2P,NC,DIR ACT ,S/P	19X19	2.63	S1S1141200				.19 EO	21	16 1
NUMATICS	4LSA03		.300	AKS-V	SGL,3W,2P,MP,DIR ACT ,VAC	10X10	4.25					.00	3	0 2

CLASS:SOLENOID
SIZE: 0.50 INCH

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL STEM	VALVE MATL SEAT	VALVE MATL OTHER	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 0.50INCH (CONTD)													
STERER	26370-2	75M08841-1	3000	X -S	DBL,4W,2P,LP,DIR ACT ,S/P	19X19	5.31	A3S2S222A1				.00	7	6 1
STERER	26370-3	75M08840		X -S	, , , , ,		.00					.00	*	*
STERER	32310-5	11M00784	1500	X -S	DBL,4W,3P,NC,DIR ACT ,S/P	19X19	5.31	A3S2S222A1				.00	1	0 1
STERER	37890	75M08841-3	3000	X -S	DBL,4W,2P,LP,DIR ACT ,S/P	19X19	3.50	A3S2S202A1				.00	4	8 1
	CLASS:SOLENOID SIZE: 0.75 INCH													
ASCO	8210C3		250	XNS-V	SGL,2W,2P,NC,PILOT OP,	10X10	3.78	B0S0020000				6.5 CV	22	0 2
AVI	19000		500		DBL,3W,2P,MP,PILOT OP,	06X06	7.00	B3S0B30000				.00	3	0 2
GENCNTR	K153C1152		90	R -V	SGL,2W,2P,NC,PILOT OP,	10X10	3.50	B0000020000				7.8 CV	2	0 2
MAROTTA	229644-12 MOD MV159KA	10437737-2	3000	ABC-S	SGL,2W,2P,NC,DIR ACT ,S/P	19X19	.00	S1S1130200				.60 EO	10	1 1
MAROTTA	229654-11 MOD MV159KC	75M14551-1	3000	ABC-S	SGL,2W,2P,NO,DIR ACT ,S/P	19X19	.00	S1S1130200				.60 EO	2	4 1
MAROTTA	229654-12 MOD MV159KC	75M14551-2	3000	ABC-S	SGL,2W,2P,NC,DIR ACT ,S/P	19X19	.00	S1S1130200				.60 EO	1	1 1
VACCO	NCSV-1P-204-2CG		500	BC -V	SGL,2W,2P, ,DIR ACT ,	10X10	2.50	A2S1171700				.00	1	1 2
VACCO	S2-3P-464-3CMS		3000	BC -V	SGL,3W,2P,NC,PILOT OP,	13X13	4.50	S1S1141202				4.2 CV	1	1 1
VALCOR	V-41600-09	75M16991	50	B -S	SGL,2W,2P,NC,DIR ACT ,S/P	27X27	.00	S1S1S1C100				.00	1	1 1
	CLASS:SOLENOID SIZE: 0.88 INCH													
ALCO	M635H		250	Z -V	SGL,2W,2P,NC,DIR ACT ,	76X76	3.75	BUSUS02000				.56 OD	1	0 3
	CLASS:SOLENOID SIZE: 0.88 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL STEM	VALVE MATL SEAT	VALVE MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	CLASS:SOLENOID SIZE: 1.00 INCH													
ASCO	WP-HT-X-821027	75M15214-PSV-4		N -S	, , , , ,		.00					.00	3	1
ASCO	WPLB8210B4		125	XNS-V	SGL,2W,2P,NC,PILOT OP,	10X10	4.00	BUS0020000				13.0 CV	1	0 2
ASCO	8210A4		125	XNS-V	SGL,2W,2P,NC,PILOT OP,	10X10	3.75	BUS0020000				13.0 CV	2	0 2
FLODYNE	10C15	75M00455		X -S	, , , , ,		.00					.00	16	0
KEMP	K402016	75M08822	3000	B -S	DBL,2W,2P,NC,PNEU PIL,	68X68	2.09	A100120200				.00	3	2 1
KEMP	K402016-3	75M08822-3	3000	B -S	DBL,2W,2P,NC,PNEU PIL,	68X68	2.09	A100120200				.00	1	3 1
MAROTTA	227154-2	75M21809-2	3000	ABX-V	DBL,3W,2P,NC,PNEU PIL,S/P	43X43	4.18	S1S1140200				.50 E0	4	4 1
MAROTTA	227154-4 PV43C E0 3029	75M08826-4	3000	BX -S	DBL,3W,2P,NC,PNEU PIL,S/P	43X43	4.18	S1S1140253				.50 E0	4	8 1
MAROTTA	227154-5 MOD PV43C	75M08826-3	3000	BX -S	DBL,3W,2P,NC,PNEU PIL,S/P	19X19	4.18	S1S1140200				.70 E0	4	1 1
MAROTTA	227404-3	75M08827-4		BX -S	, , , , ,		.00					.00	2	0
MAROTTA	229664 MOD MV173K	75M02802	3000	ABC-S	SGL,2W,2P,CO,PNEU PIL,M/S	18X18	5.06	S1S1130200				1.05 E0	9	4 1
MAROTTA	806118 MOD MV526B-1A	11M00818	1500	B -S	SGL,3W,2P,NC,PNEU PIL,S/P	13X13	3.80	A2S1130212				.80 E0	2	0 1
MAROTTA	806133-11122MOD MV557H	11M00778-1	1500	B -S	SGL,3W,2P,NC,DIR ACT ,	13X13	3.95	S1S1130200				.60 E0	4	0 1
MAROTTA	806133-21112MOD MV557H	11M00778-3	3000	B -S	SGL,3W,2P,NC,DIR ACT ,	13X13	3.95	S1S1140200				.60 E0	2	0 1
MAROTTA	806203-1 MOD PVM52681A	75M18599	1500	ABC-S	SGL,3W,2P,NC,PNEU PIL,S/P	13X13	3.80	S1S1130212				.80 E0	2	2 1
	CLASS:SOLENOID SIZE: 1.00 INCH													

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	VALVE MATL TRIM	VALVE MATL SEAL	VALVE MATL ACT	VALVE MATL OTH	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 1.00INCH (CONTD)														
MAROTTA	806246 MV519A-1AE02933	11M00787	3000	X -S	OBL,4W,3P,NC,HYDR PIL,M/S	13X13	6.85	A1A11302S1					.56 EO	1	0 1
TEMESCL	01-1030-010-1A		15	AK -V	SGL,2W,2P,NC,PNEU ACT,VAC	10X10	.00	B000000000					.00	3	0 2
VALCOR	V-41600-02	1GM01211	50	EFG-V	SGL,2W,2P,NO,DIR ACT ,CRY	27X27	5.16	S1S1S1C100					.90 OD	2	2 1
VALCOR	V-44800-11	75M16994	350	B -S	SGL,2W,2P,NC,DIR ACT ,S/P	19X19	1.81	A1C1A00200					.80 OD	2	2 1
	CLASS:SOLENOID SIZE: 1.13 INCH														
ALCO	M355		250	Z -V	SGL,2W,2P,NC,DIR ACT ,	76X76	4.88	B0S0S02000					1.00 OD	1	1 3
TEMESCL	01-1130-011-1A		15	AK -V	SGL,2W,2P,NC,PNEU ACT,VAC	76X76	.00	B000000000					.00	1	0 3
	CLASS:SOLENOID SIZE: 1.25 INCH														
FLODYNE	12C15	75M11865	3000	X -S	SGL,2W,2P,NC,PNEU PIL,	19X19	6.75	A1S1A10200					1.08 OD	1	1 1
	CLASS:SOLENOID SIZE: 1.50 INCH														
ASCO	WP821083		300	ANX-V	SGL,2W,2P, ,DIR ACT ,	10X10	4.33	B0S0020200					22.5 CV	1	1 2
ASCO	8210A44		250	XNS-V	,2W,2P, ,DIR ACT ,	10X10	.00	B0S0000000					22.5 CV	7	0
	CLASS:SOLENOID SIZE: 1.50 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE MATL BODY	STEM	SEAT	O-RING	FLOW FACTOR	P/N TOT	M/R UCR TOT
SIZE: 1.50INCH (CONTD)														
FLODYNE 15C150		75M08821	3500	X -S	DBL,2W,2P,MP,PNEU PIL,	68X68	10.75	A1S1000200				110.0 CV	3	1 1
FLODYNE 15C16		75M11862	3000	X -S	SGL,2W,2P,NC,PNEU PIL,	19X19	6.75	A1S1A10200				1.31 OD	2	1 1
GENCNTR K15BA7382			175	R -V	SGL,2W,2P,NC,PILOT OP,	10X10	6.50	B0000200D0				28.5 CV	1	1 2
CLASS:SOLENOID SIZE: 1.63 INCH														
SPORLAN HMA42S3-1.63		75M04406-PSV-4	300	I -S	SGL,2W,2P,NC,PILOT OP,	76X76	6.63	C2S0201900				1.31 OD	15	1 1
SPORLAN 100HS NEW#HMA42S3-1.63		75M15816-PSV-4	300	Z -S	SGL,2W,2P,NC,PILOT OP,	76X76	6.63	C2S0201900				1.31 OD	15	1 1
CLASS:SOLENOID SIZE: 2.00 INCH														
ASCO 8210A46			100	XNS-V	SGL,2W,2P,NC,PILOT OP,	10X10	6.75	B0S0020000				43.0 CV	1	0 2
MAROTTA 806162MOD PVM555H3D-1A		75M51262	3000	ABC-S	SGL,2W,2P,NC,PNEU PIL,S/P	13X13	9.09	A1S1130200				1.80 EO	2	0 1
CLASS:SOLENOID SIZE: 3.00 INCH														
TEMESCL 3-5130-1A			15	AK -V	SGL,2W,2P, ,PNEU ACT,VAC	64X64	3.50	A300000000				.00	3	0 1
CLASS:SOLENOID SIZE: 4.00 INCH														
HYDRMAT A231P5			150	N -V	SGL,3W,2P,NC,PNEU ACT,P/I	58X58	12.00	B1M1120200				.00	1	1 1
CLASS:SOLENOID SIZE: 4.00 INCH														

VENDOR PART NO./VALVE CLASS SORT

VENDOR	VENDOR PART NO.	NASA PART NO.	RATED PRESS	FLUID MEDIA	DESCRIPTION/FUNCTION	PORT CONN	FACE-TO-FACE	VALVE BODY	VALVE STEM	VALVE SEAL	MATL OTHR	FLOW FACTOR	P/N TOT	M/R UCR TOT
	SIZE: 4.00INCH (CONTD)													
TEMESCL	4-5130-1A		15	AK -V	SGL,2W,2P, ,PNEU ACT,VAC	64X64	4.13	A	3	0	0000000000	.00	4	0 1
TEMESCL	4-5130-1A-P		15	AK -V	SGL,2W,2P, ,PNEU ACT,VAC	64X64	4.13	A	3	0	0000000000	.00	7	0 1

CLASS:SOLENOID
SIZE: 4.00 INCH

Appendix A

BASIC STUDY DOCUMENTS

The documents used as basic sources of data during the valve standardization study are listed below, grouped according to the areas to which they relate:

Launch Complex 34 (LC-34) Documents

60C90205 (Rev C)	Composite Saturn Launch Complex 34 and Vehicle System Schematic SA-206
60C90217C (Rev C)	Index of Finding Numbers and Legend of Symbols, Vehicle SA-205 and Launch Complex 34
SP-204-D (Aug 30, 1968)	LC-34 System, ICD Integration Drawings

Launch Complex 37B (LC-37B) Documents

60C90206 (Rev C)	Composite Saturn Launch Complex 37B and Vehicle System Schematic SA-206
60C90218C (Rev C)	Index of Finding Numbers and Legend of Symbols, Vehicle SA-206 and Launch Complex 37B
GP-227-D (Dec 19, 1967)	LC-37B Uprated Saturn I System ICD Integration Drawings

Launch Complex 39A and 39B (LC-39A, LC-39B) Documents

10M30531 (Rev L)	Saturn V Composite Mechanical Schematic (Section III) and Finding Number Index (Section II)
SP-205-D (Rev F)	LC-39 Launch Support Systems Drawings (Interface Control Documents)
75M05976 (Rev C)	Mechanical Interconnect, Launch Complex 39

Industrial Area Documents

Only those Industrial Area fluid systems that are the responsibility of NASA/KSC Design Engineering and that are also mission-critical were included in the Industrial Area portion of the valve study. Documents related to fluid systems meeting these parameters are listed below:

Catalytic-Dow Drawings

Fluid System	Drawing Number
Altitude Simulator (O&C Building)	
System B - Vacuum	B02.06.15.OADM953.00
System M - Vacuum and Trap Seal	B02.06.00.OADM952.00
System D - Valve Air	B02.06.00.OADM951.00
System K - Breathing GO_2	B02.06.00.OADM951.00
System G - Cryogenic LN_2	B02.06.14.OADM955.00
System T - GN_2 Purge	B02.06.00.OADM954.00
System W - Water Deluge	B02.06.51.OADM510 01
System C - Repressurization	B02.06.13.OADM950.00
Crew Compartment Cooling Unit	A39.06.36.OADT360.00
Test Fluids System (O&C Building)	
Compressed Air Subsystem	B02.07.10.OADM961.00
Breathing Air Subsystem	B02.07.07.OADM958.00
GO_2 Subsystem	B02.07.01.OADM963.00
LO_2 Subsystem	B02.07.06.OADM962.00
GN_2 Subsystem	B02.07.02.OADM959.00
Alcohol Subsystem	B02.07.08.OADM907.02
GHe Subsystem	B02.07.03.OADM964.00
Water Glycol Subsystem	B02.07.OADM907.02
GH_2 Subsystem	B02.07.00.OADT179.00
De-ionized Water Subsystem	B02.07.55.OADM550.00

Bendix Operational Drawings

Fluid System	Drawing Number
Altitude Simulator (O&C Building)	
Altitude Chambers, L&R Air Conditioning	68-K-L-11221
Altitude Chambers, L&R Structures	68-K-L-11213
Altitude Chambers, L&R Chilled Water	68-K-L-11218
Altitude Chambers, L&R Instrument Air	68-K-L-11223
GO_2 Umbilical	69-K-L-12241
Vacuum Hardline	67-K-L-11158
65/35% GO_2/GN_2	69-K-L-11242
Miscellaneous (O&C Building)	
Hyperbaric Chamber	68-K-L-11158
Mobile Hyperbaric Chamber, Breathing Gas	69-K-L-11560
Breathing Air System to Room 3287A	67-K-L-11046
Compressed Air System to Launch Site, Medical Operations Area	67-K-L-11061
High and Low Bay Vertical Doors	67-K-L-11085

Appendix B

VALVE CLASS DESIGNATIONS

Abbreviation	Valve Class
CHECK	Check Valve
DIR CONT	Directional Control Valve
FLOW REG	Flow Regulating Valve
MANUAL	Manually Operated Valve
RELIEF	Relief Valve
SOLENOID	Solenoid Valve
PRES REG	Pressure Regulating

Appendix C

VALVE DESCRIPTION/FUNCTION DESIGNATION

MANUAL VALVE CLASS

Code	Abbreviation	Description/Function
1 2 3 4 5 6		
		Valve Type
0 0	(blank)	Undefined
0 1	GLOBE	Globe valve
0 2	Y-GLOBE	Y-Globe valve
0 3	BALL	Ball valve
0 4	PLUG	Plug valve
0 5	GATE	Gate valve
0 6	NEEDLE	Needle valve
0 7	DIPHRAM	Diaphragm valve
0 8	BUTRFLY	Butterfly valve
0 9	COCK	Cock valve
1 0	GAGE	Sight gage valve
1 1	BUTTON	Button-operated valve
1 2	TOGGLE	Toggle-operated valve
1 3	LEVER	Lever-operated valve
		Port Orientation
0	(blank)	Undefined
1	INLINE	Ports are in-line
2	ANGLE	Ports are at right angle
3	OFFSET	Ports are offset (and parallel)
4	3-PORT	Three ports

VALVE DESCRIPTION/FUNCTION--MANUAL (Continued)

Code	Abbreviation	Description/Function
1 2 3 4 5 6		
		Functional Description
0	(blank)	Undefined
1	SHUTOFF	Shutoff valve
2	METERING	Metering valve
3	FLOW REG	Flow-regulating valve
		Special Service Description
0	(blank)	Undefined or normal service
1	VAC	High-vacuum service
2	CRY	Cryogenic Service (not vacuum-jacketed)
3	J/C	Vacuum-jacketed for cryogenic service
4	E-B	Valve with extended bonnet
		Provisions for Panel Mounting
0	(blank)	Undefined
1	N	No provisions for panel mounting
2	P	Provisions for panel mounting

VALVE DESCRIPTION/FUNCTION (Continued)

SOLENOID VALVE CLASS

Code	Abbreviation	Description/Function
1 2 3 4 5 6		**Number of Solenoids**
0	(blank)	Undefined
1	SGL	Single solenoid
2	DBL	Double solenoid
3	TPL	Triple solenoid
		Valve Porting
0	(blank)	Undefined
2	2W	2-way
3	3W	3-way
4	4W	4-way
5	5W	5-way
		Number of Valve Positions
0	(blank)	Undefined
2	2P	2-position
3	3P	3-position
4	4P	4-position

VALVE DESCRIPTION/FUNCTION--SOLENOID (Continued)

Code 1 2 3 4 5 6	Abbreviation	Description/Function
		De-energized Valve Position
0	(blank)	Undefined
1	NO	Normally open (inlet)
2	NC	Normally closed (inlet)
3	MP	Multi-purpose
4	SP	Spool valve with spool positions other than described above
5	LP	Spool valve with spool latched in last energized position
6	CO	Normally closed or open (depending on orientation of the pilot valve to the main valve)
		Valve Actuator/Operator
0	(blank)	Undefined
1	DIR ACT	Direct acting solenoid actuator
2	PNEU PIL	Pneumatic pilot operated
3	HYDR PIL	Hydraulic pilot operated
4	PILOT OP	Pilot operated (pilot fluid media unspecified)
5	PNEU ACT	Pneumatic actuated w/solenoid operator
6	HYDR ACT	Hydraulic actuated w/solenoid operator

VALVE DESCRIPTION/FUNCTION--SOLENOID (Continued)

Code	Abbreviation	Description/Function
1 2 3 4 5 6		Special Service Description
0	(blank)	Undefined or normal service
1	VAC	High vacuum service
2	CRY	Cryogenic service (not vacuum-jacketed)
3	J/C	Vacuum-jacketed for cryogenic service
4	M/O	Mechanical override, without position indicator
5	P/I	Position indicator, local only
6	S/P	Position indicator, remote reading (electrical)
7	M/S	Mechanical override, with position indicator

VALVE DESCRIPTION/FUNCTION (Continued)

FLOW REGULATING VALVE CLASS

Code	Abbreviation	Description/Function
1 2 3 4 5 6		
1	SHUTOF	SHUTOFF VALVE
		Valve Type
0	(blank)	Undefined
1	GLOBE	Globe valve
2	Y-GLO	Y-Globe valve
3	BALL	Ball valve
4	PLUG	Plug valve
5	GATE	Gate valve
6	DIPHR	Diaphragm valve
7	BUTRF	Butterfly valve
8	ANGLE	Angle valve
		Valve Actuator
0	(blank)	Undefined
1	PNEU ACT	Pneumatic actuated
2	HYDR ACT	Hydraulic actuated
3	MOTR ACT	Motor actuated
4	CAM ACT	Cam actuated
		Valve Operator
0	(blank)	Undefined
1	DIR	Direct operated
2	PIL	Pilot operated
3	POS	Positioner operated

VALVE DESCRIPTION/FUNCTION--FLOW REGULATING (Continued)

Code	Abbreviation	Description/Function
1 2 3 4 5 6		
		Special Service Description
0	(blank)	Undefined or normal service
1	VAC	High vacuum service
2	CRY	Cryogenic service (not vacuum-jacketed)
3	J/C	Vacuum-jacketed for cryogenic service
0		Unassigned Code Number

VALVE DESCRIPTION/FUNCTION--FLOW REGULATING (Continued)

Code	Abbreviation	Description/Function
1 2 3 4 5 6		
2	FLO-CT	FLOW CONTROL VALVE
		Valve Type
0	(blank)	Undefined
1	GLOBE	Globe valve
2	Y-GLO	Y-Globe valve
3	BALL	Ball valve
4	BUTRF	Butterfly valve
5	ANGLE	Angle valve
6	DECEL	Deceleration valve
		Valve Actuator
0	(blank)	Actuator undefined
1	PNEU ACT	Pneumatic actuated
2	HYDR ACT	Hydraulic actuated
3	MOTR ACT	Motor actuated
4	CAM ACT	Cam actuated
5	BELLOWS	Bellows actuated
		Valve Operator
0	(blank)	Undefined
1	DIR	Direct operated
2	PIL	Pilot operated
3	POS	Positioner operated
4	TMP	Temperature (bulb) operated

VALVE DESCRIPTION/FUNCTION--FLOW REGULATING (Continued)

Code	Abbreviation	Description/Function
1 2 3 4 5 6		Special Service Description
0	(blank)	Undefined or normal service
1	VAC	High vacuum service
2	CRY	Cryogenic service (not vacuum-jacketed)
3	J/C	Vacuum-jacketed for cryogenic service
0		Unassigned Code Number

VALVE DESCRIPTION/FUNCTION--FLOW REGULATING (Continued)

Code	Abbreviation	Description/Function
1 2 3 4 5 6		
3	FLO-REST	FLOW RESTRICTOR VALVE
		Fluid Media
0	(blank)	Undefined
1	PNEU	Pneumatic media
2	HYDR	Hydraulic media
3	HYD/PNE	Hydraulic or pneumatic media
		Directions of Restricted Flow
0	(blank)	Undefined
1	1W	One-way flow restriction
2	2W	Two-way flow restriction
		Flow Rate Adjustment
0	(blank)	Undefined
1	ADJ	Adjustable
2	NON-ADJ	Non-adjustable
0 0		Unassigned Code Numbers

VALVE DESCRIPTION/FUNCTION (Continued)

PRESSURE REGULATING VALVE CLASS

Code	Abbreviation	Description/Function
1 2 3 4 5 6		
1	REG	PRESSURE REGULATOR
		Loading Element
0	(blank)	Undefined
1	SPR	Spring loaded
2	DOM	Dome (pressure) loaded
		Reverse Relief Provision
0	(blank)	Undefined
1	RLV	Relieving type regulator
2	N-R	Non-relieving type regulator
		Type of Control/Adjustment
0	(blank)	Undefined
1	MAN	External manually-adjusted knob
2	PRS	Responds to pilot pressure (dome)
3	SOL	Solenoid controlled
4	SET	Pre-set or requires tool for adjustment
		Special Service Description
0	(blank)	Undefined or normal service
1	CRY	Cryogenic service (not vacuum-jacketed)
2	J/C	Jacketed for cryogenic service

VALVE DESCRIPTION/FUNCTION--PRESSURE REGULATING (Continued)

Code	Abbreviation	Description/Function
1 2 3 4 5 6		Pressure Reduction Range
0	(blank)	Undefined
1	XXXX/XXXX	Outlet port pressure range
2	INLT-REDU	Inlet pressure reducing regulator. (Regulator senses upstream pressure and adjusts pressure accordingly. See valve data for additional information)

VALVE DESCRIPTION/FUNCTION--PRESSURE REGULATING(Continued)

Code	Abbreviation	Description/Function
1 2 3 4 5 6		
2	PRS-CT	PRESSURE CONTROL VALVE
		Valve Type
0	(blank)	Undefined
1	GLOBE	Globe valve
2	Y-GLO	Y-Globe valve
3	BALL	Ball valve
4	BUTRF	Butterfly valve
5	ANGLE	Angle valve
		Valve Actuator
0	(blank)	Undefined
1	PNEU ACT	Pneumatic actuated
2	HYDR ACT	Hydraulic actuated
3	MOTR ACT	Motor actuated
4	CAM ACT	Cam actuated
		Valve Operator
0	(blank)	Undefined
1	DIR	Direct operated
2	PIL	Pilot operated
3	POS	Positioner operated

VALVE DESCRIPTION/FUNCTION--PRESSURE REGULATING (Continued)

Code	Abbreviation	Description/Function
1 2 3 4 5 6		Special Service Description
0	(blank)	Undefined or normal service
1	VAC	High vacuum service
2	CRY	Cryogenic service (not vacuum-jacketed)
3	J/C	Vacuum-jacketed for cryogenic service
0		Unassigned Code Number

VALVE DESCRIPTION/FUNCTION--PRESSURE REGULATING (Continued)

Code	Abbreviation	Description/Function
1 2 3 4 5 6		
3	BACK-PRS	BACK-PRESSURE VALVE
		Method of Operation
0	(blank)	Undefined
1	DIR OP	Direct operated
2	PIL OP	Pilot operated
3	DOM LD	Dome (pressure) loaded
		Special Service Description
0	(blank)	Undefined or normal service
1	CRY	Cryogenic service (not vacuum-jacketed)
2	J/C	Vacuum-jacketed for cryogenic service
		Pressure Differential
0	(blank)	Undefined
1	XX/XXX	Pressure differential range (PSI) (See valve data for flow rate and pressure drop)
0 0		Unassigned Code Numbers

CHECK VALVE CLASS

Code	Abbreviation	Description/Function
1 2 3 4 5 6		Type of Check Valve
0	(blank)	Undefined
1	POPPET	Poppet
2	SWING	Swing
3	LIFT	Lift
4	DISC	Disc
5	PISTON	Piston
6	BALL	Ball
7	VAC BR	Vacuum breaker
		Port Orientation
0	(blank)	Undefined
1	INLINE	Ports are in-line
2	ANGLE	Ports are at right angle
3	OFFSET	Ports are offset (and parallel)
		Installation Position
0	(blank)	Undefined
1	HORZ	Horizontal position
2	VERT	Vertical position
3	ANY	Any position
		Method of Actuation
0	(blank)	Undefined
1	DIR OP	Direct operated
2	PIL OP	Pilot operated

VALVE DESCRIPTION/FUNCTION --CHECK (Continued)

Code	Abbreviation	Description/Function
1 2 3 4 5 6		
		Special Service Description
0	(blank)	Undefined or normal service
1	VAC	High vacuum service
2	CRY	Cryogenic service (not vacuum-jacketed)
3	J/C	Vacuum-jacketed for cryogenic service
0		Unassigned Code Number

RELIEF VALVE CLASS

Code	Abbreviation	Description/Function
1 2 3 4 5 6		Method of Operation
0	(blank)	Undefined
1	DIR	Direct operated
2	PIL	Pilot operated
		Port Orientation
0	(blank)	Undefined
1	INLIN	Ports are in-line
2	ANGLE	Ports are at right angle
3	OFFST	Ports are offset (and parallel)
		Special Service Description
0	(blank)	Undefined or normal service
1	VAC	High vacuum service
2	CRY	Cryogenic service
3	J/C	Vacuum-jacketed for cryogenic service
		Cracking Pressure Setting
0 0	CP	Undefined
X X X	XXXXCP	Cracking pressure (PSI)
		Cracking Pressure Range
0	(blank)	Undefined
1	ADJ CP	Adjustable, range not specified
2	XXXX/XXXX	Adjustable range
3	NON-ADJ	Non-adjustable (PSI)

VALVE DESCRIPTION/FUNCTION (Continued)

DIRECTIONAL CONTROL VALVES

Code	Abbreviation	Description/Function
1 2 3 4 5 6		
1	SELECT	SELECTOR VALVE
		Valve Porting
0	(blank)	Undefined
3	3W	3-way
4	4W	4-way
5	5W	5-way
		Number of Valve Positions
0	(blank)	Undefined
2	2P	2-position
3	3P	3-position
		Type Valve Actuator
0	(blank)	Undefined
1	MAN ACT	Manually actuated
2	PNEU ACT	Pneumatic actuated
3	HYDR ACT	Hydraulic actuated
4	MOTR ACT	Motor actuated
5	CAM ACT	Cam actuated
6	FL. ACT	Pneumatic or hydraulic actuated

VALVE DESCRIPTION/FUNCTION--DIRECTIONAL CONTROL (Continued)

Code	Abbreviation	Description/Function
1 2 3 4 5 6		Valve Operator
0	(blank)	Undefined
1	DIR	Direct operated
2	PIL	Pilot operated
3	POS	Positioner operated
		Special Service Description
0	(blank)	Undefined
1	VAC	High vacuum service
2	CRY	Cryogenic service (not vacuum-jacketed)
3	J/C	Vacuum-jacketed for cryogenic service
4	Q/E	Quick-exhaust valve
2	SHUTTLE	SHUTTLE VALVE
0 0 0 0 0		Unassigned Code Numbers
3	CALIBRATN	CALIBRATION VALVE
0 0 0 0 0		Unassigned Code Numbers

Appendix D

PORT CONNECTION DESIGNATIONS

Code	Abbreviation	Type and Description/Specification
00	(blank)	Type of connection not specified
01	SCRWD, N/D	Screwed, no description
02	TUBE, N/D	Screwed, tube thread, no description
03	TUBE, INT	Screwed, internal tube thread, no description
04	TUBE, EXT	Screwed, external tube thread, no description
05	PIPE, N/D	Screwed, pipe thread, no description
06	PIPE, INT	Screwed, internal pipe thread, no description
07	PIPE, EXT	Screwed, external pipe thread, no description
08	NPT, N/D	Screwed, (unspecified) pipe thread, NPT
09	NPT, EXT	Screwed, external pipe thread, NPT
10	NPT, INT	Screwed, internal pipe thread, NPT
11	NGT, EXT	Screwed, external gas thread, NGT
12		
13	AND10050	Screwed, internal tube thread, AND10050
14	AND10052	Screwed, external pipe thread, AND10052
15	AND10056	Screwed, external flared 37° tube connection, AND10056
16	CGA	Screwed, CGA thread
17	MS16142	Screwed, internal tube thread, MS16142
18	MS172	Screwed, external flared 37° tube connection, MC172
19	MC240	Screwed, internal tube thread, MC240
20	KC105	Screwed, external tube thread, KC105
21	AN-MC-SP	Super pressure port (modified to permit use of MS, MC, or AN tube fitting)
22		
23	MS24385	Screwed, external flared 37° tube connection, MS24385
24		
25	MS33514	Screwed, external flareless tube connection, MS33514
26		
27	MS33656	Screwed, external flared 37° tube connection, MS33656
28	MS33657	Screwed, bulkhead flared 37° tube connection, MS33657
29	MS33677	Screwed, external pipe thread, MS33677

PORT CONNECTION DESIGNATIONS (Continued)

Code	Abbreviation	Type and Description/Specification
30	UNF-2B	Screwed, internal UNF-2B thread
31	COMPRESS	Screwed, compression fitting
32		
33	SAE 37, INT	Screwed, internal tube thread, SAE 37°
34	SAE 37, EXT	Screwed, external tube thread, SAE 37°
35	NPS-RH, INT	Screwed, internal pipe thread (NPS), right-hand
36	NPS-RH, EXT	Screwed, external pipe thread (NPS), right-hand
37	NPS-LH, INT	Screwed, internal pipe thread (NPS), left-hand
38	NPS-LH, EXT	Screwed, external pipe thread (NPS), left-hand
39	75M11196	Screwed, bulkhead flared 37° tube connection, 75M11196
40	75M11197	Screwed, external flared 37° tube connection, 75M11197
41		
42		
43		
44		
45	AMINCO, EXT	Screwed, aminco external thread or fitting
46	AMINCO, INT	Screwed, aminco internal thread or fitting
47		
48		
49	AUTOCL, EXT	Screwed, autoclave external thread or fitting
50	AUTOCL, INT	Screwed, autoclave internal thread or fitting
51		
52		
53		
54	SWAGELOK	Screwed, swagelok tube connection
55	GYROLOK	Screwed, gyrolok tube connection
56		
57		
58	GROOVED	Grooved for victaulic coupling
59		
60	FLANGED	Flanged, no description
61	FLANGE, FF	Flanged, flat face (per ASA B16.5)
62	FLANGE, RF	Flanged, raised face (per ASA B16.5)

PORT CONNECTION DESIGNATIONS (Continued)

Code	Abbreviation	Type and Description/Specification
63	FLANGE, RJ	Flanged, ring joint
64	FLANGE, O-R	Flanged, O-ring groove (both sides)
65		
66	FLANGE, SG	Flanged, small groove
67	FLANGE, ST	Flanged, small tongue
68	GRAYLOC, FL	Flanged, grayloc connection
69		
70	CONSEAL, FL	Flanged, conoseal connection
71	SUBPLATE	Subplate mounted
72		
73	VENT	Vented to atmosphere, no connection
74		
75	SOLDR, N/D	Solder joint, no description
76	SOLDR, TUBE	Solder cup for tubing (per USASI B16.18)
77		
78	BRAZE, N/D	Silver braze joint, no description
79	BRAZE, TUBE	Silver braze cup for tubing
80	BRAZE, PIPE	Silver braze cup for brass or copper pipe
81	BRAZE, IRON	Silver braze cup for iron or steel pipe
82		
83		
84		
85		
86	WELDED, N/D	Welded joint, no description
87	BUTT WELD	Butt weld, no description
88	BUTWELD-5	Butt weld, schedule No. 5 pipe
89	BUTWELD-10	Butt weld, schedule No. 10 pipe
90	BUTWELD-40	Butt weld, schedule No. 40 pipe
91	BUTWELD-80	Butt weld, schedule No. 80 pipe
92	BUTWELD160	Butt weld, schedule No. 160 pipe
93	SOKET WELD	Socket weld, no description
94	SOKWELD-5	Socket weld (ASA B16.11), schedule No. 5 pipe
95	SOKWELD-10	Socket weld (ASA B16.11), schedule No. 10 pipe

PORT CONNECTION DESIGNATIONS (Continued)

Code	Abbreviation	Type and Description/Specification
96	SOKWELD-40	Socket weld (ASA B16.11), schedule No. 40 pipe
97	SOKWELD-80	Socket weld (ASA B16.11), schedule No. 80 pipe
98	SOKWELD160	Socket weld (ASA B16.11), schedule No. 160 pipe

Appendix E

SYSTEM FLUID MEDIA DESIGNATIONS

Code	Abbreviation	Fluid Media
(blank)	(blank)	Undefined
A	AIR	Air
B	GN2	Gaseous Nitrogen
C	GHE	Gaseous Helium
D	GH2	Gaseous Hydrogen
E	GOX	Gaseous Oxygen
F	LN2	Liquid Nitrogen
G	LOX	Liquid Oxygen
H	LH2	Liquid Hydrogen
I	REFG	Refrigerant, Undefined
J	LPG	Propane
K	VAC	Vacuum
L	KER	Kerosene
M	ALC	Alcohol
N	H2O	Water
P	OIL	Oil
Q	WGLY	Water Glycol
R	WOG	Water, Oil, or Gas
S	GAS	Gases
T	LIQ	Liquids
U	MMH	Monomethylhydrazine
V	UDMH	Unsymetrical Dimethylhydrazine
W	N2O4	Nitrogen Tetroxide
X	HYDR	Hydraulic Fluid
Y	RP-1	RP-1
Z	RF22	Refrigerant 22

Appendix F

MATERIAL OF WETTED PARTS--METAL

Code	Material	Specification/ Composition
A0	Aluminum	Undefined
A1	Aluminum	2024-T4 or T351
A2	Aluminum	6061-T6 or T651
A3	Aluminum	Cast
A4	Aluminum	7075-T6
B0	Brass	Undefined
B1	Bronze	Undefined
B2	Leaded red bronze casting	ASTM-B-62
B3	Steam or navy-M bronze	ASTM-B-61
B4	Yellow brass	ASTM-B-16
B5	Naval brass	QQ-B-637
B6	Brass - other alloys	Cu & Zn or others
B7	Bronze - other alloys	Cu & Sn or others
C0	Steel	Undefined
C1	Carbon steel	All grades
C2	Low and medium alloy steels	All grades
C3	Chrome - moly steels	All grades
F0	Iron	Undefined
F1	Cast iron	All grades
F2	Malleable iron	All grades
H1	Hastelloy	All grades
K1	Chrome plate	All grades
M1	Monel	All grades
N1	Inconel	All grades
N2	Nickel alloys - other	Not monel or inconel
P1	Poly-vinyl chloride	High impact - Type II
R1	Stellite	All grades
S0	Stainless steel	Undefined
S1	Stainless steel	300 series (includes 18-8)
S2	Stainless steel	400 series
S3	Stainless steel	17-4 PH
S4	High-alloy stainless	All grades (Alloy 20 & chrome - nickel alloy steels)
Z0	Zinc	Undefined
Z1	Zinc	Die cast

MATERIAL OF WETTED PARTS--NONMETAL

Code	Material
00	Undefined
01	Ethylene propylene
02	Buna - N
03	Neoprene
04	Neoprene W
05	Silicone
06	Viton
07	Buna - S
08	Butyl
09	Flouro-silicone
10	Polysulfide "Thiokol"
11	Delrin
12	TFE "Teflon"
13	CTFE "Kel-F"
14	Nylon
15	Polyethylene
16	Kynar
17	Synthetic rubber, undefined
18	Synthetic rubber, MS29513
19	Asbestos
20	Composition, non-metallic
21	Vespel
22	Synthetic rubber, MS28775
23	Leather
24	Dow Corning Silastic
25	Disogrim polyurethane elastomer
26	Nitrile rubber

Appendix G

VENDOR DESIGNATIONS

Abbreviation	Vendor	Address	Phone
ACEVALV	Ace Valve Co.	1820 N. 12th St., PO Box 784 Toledo, Ohio 43601	
ADEL	Adel Division DeLaval Turbine	10777 Vanowen Street Burbank, Calif. 91503	
AEROSPA	Aerospace Research, Inc.	130 Lincoln Boston, Mass. 02109	
AERVALC	AerValco Co. Division Snap-Tite, Inc.	4939 North Earle Street Rosemead, Calif. 91770	
AIRCO	Airco Welding Products	PO Box 486 Union, New Jersey 07083	(201) 354-1212
AIRMATIC	Airmatic Valve, Inc.	7313 Associate Avenue Cleveland, Ohio 44109	(216) 961-5320
AIRFACT	Air Factors, Inc.		
AIRPORM	Aircraft Porous Media, Inc. subsidiary of Pall Corp.	30 Sea Cliff Ave. Glen Cove, New York 11542	(516) 671-4000
AIR-RED	Air Reduction Co., Inc.	PO Box 486 Union, New Jersey 07083	(201) 354-1212
ALCO	Alco Controls Division Emerson Electric Co.	PO Box 12700 St. Louis, Mo. 63141	(314) 432-6300

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
ALLIS-C	Allis Chalmers Industrial Machinery Division	PO Box 721 York, Pennsylvania 17405	(717) 848-1126
ALLOY-S	Aloyco Division, Walworth Co. (formerly Alloy Steel Prod. Co.)	1400 West Elizabeth Ave. Linden, New Jersey 07036	(201) 925-4600
AMINCO	American Instrument Co., Inc.	8030 Georgia Avenue Silver Spring, Maryland 20910	(301) 589-1727
AMERBRK	American Brake Shoe Co. (Abex Corp) Aerospace Division	3151 West Fifth Street Oxnard, California 93030	(805) 486-1666
AMERSTD	American Standard Controls Division	PO Box 2003 New Brunswick, N. J. 08903	
ANDERSON	V. D. Anderson Co. Division of International Basic Economy Corp.	1935 West 96th Cleveland, Ohio 44102	
ANDGRWD	Anderson, Greenwood & Co.	PO Box 400 Bellaire, Texas 77401	(713) 668-0631
ANNIN	Annin Valves, Division of Masoneilan International, Inc.	1040 South Vail Ave. Montebello, Calif. 90640	(213) 723-9351
APCO	Accessory Products Co. (Sold to Wintec Controls Div. of Wintec Corp.)	12484 E. Whittier Blvd. Whittier, Calif. 90602	(213) 945-1341
APCO-SE	(See SECURTY)		
AQUATRL	Aquatrol, Inc.	1909 West Grand Ave. Chicago, Ill. 60622	(312) 829-0725

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
AVI	Atkomatic Valve Co., Inc.	PO Box 11258 141 South Sherman Dr. Indianapolis, Indiana 46201	(317) 357-8421
AUTOCLV	Autoclave Engineers, Inc.	PO Box 8410 Erie, Pennsylvania 16505	(814) 838-2071
ASCO	Automatic Switch Co.	50-56 Hanover Road Florham Park, N. J. 07932	(201) 966-2000
AUT-PON	Auto-Ponents, Inc. Affiliate of Deltrol Corp.	30th & Grant Avenues Bellwood, Ill. 60104	(312) 544-5505
BAILEY	Chas. M. Bailey Co.	Emeryville, Calif. 94608	
BARKSDL	Barksdale Valves, Division of DeLaval Turbine	5125 Alcoa Ave., Los Angeles, Calif. 90058	(213) 589-6181
BASTIAN	Bastian Blessing Co. (REGO)	4201 West Peterson Avenue Chicago, Illinois 60646	(312) 685-1121
BECKETT	Beckett-Harcum Co.	985 West Locust PO Box 809 Wilmington, Ohio 45177	(513) 382-1691
BELLGOS	Bell & Gossett Division of ITT	8234 Austin Avenue Morton Grove, Ill. 60053	
BENTON	Benton Corporation	2355 Wolcott Ferndale, Michigan 48220	
BOEING	Boeing Company	7755 East Marginal Way Seattle, Washington 98101	

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
BS&B	Black, Sivalls & Bryson, Inc.	7504 East 12th St. Kansas City, Mo. 64126	
CALMEC	Calmec Manufacturing Corp.	5825 District Blvd. Los Angeles, Calif. 90022	
CARDAIR	Cardair Division of Marmon-Herrington Co., Inc.	307 North Michigan Ave. Chicago, Illinois 60601	
CARRIER	Carrier Corporation	Carrier Parkway Syracuse, New York 13201	(315) 463-8411
CASH	A. W. Cash Valve Mfg. Corp.	Wabash & Morgan Decatur, Illinois 62525	(217) 422-8574
CASHCO	A. W. Cash Company	PO Box 551 540 North 18th St. Decatur, Illinois 62525	(217) 428-3401
CEN-SPR	Central Automatic Sprinkler Co.	Cannon Ave. & Lewis St. Lansdale, Pennyslvania 19446	
CHAPMAN	Chapman Division, Crane Co.	4100 Kedzie Ave. Chicago, Illinois 60632	
CHEMTRN	Chemetron Corporation		
CIRSEAL	Circle Seal Products Co., Inc. James, Pond, & Clark, Inc.	PO Box 3666 Anaheim, Calif. 92803	(714) 774-6110
CLARY	Clary Corporation	408 Junipero Street San Gabriel, Calif. 91777	

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
CLA-VAL	Cla-Val Company	PO Box 1325 Newport Beach, Calif. 92660	(714) 548-2201
C-MARK	Clayton-Mark & Co.	1900 Dempster St. Evanston, Illinois 60204	(312) 273-4600
CMBPUMP	Combination Pump Valve Co.	851 North Preston St. Philadelphia, Penn. 19104	(215) 386-6508
COMBMTL	Combined Metals Reduction Co.	Felt Building Salt Lake City, Utah 84101	
CONOFLO	Conoflow Corporation	Coles Road & Camden Avenue Blackwood, New Jersey 08012	(609) 227-5000
CONVACU	(See MMM)		
CONTROL	Control Components, Inc.	3791 Catalina Street Los Alamitos, Calif. 90702	(213) 430-3561
COOPER	Cooper Alloy Corp. (Sold to Dresser Industries, Inc.)	100 Bloy Street Hillside 5, N. J. 07205	(201) 688-4120
CONSOL	Consolidated Precision Corp.	Lake Park, Florida 33403	
CORNELS	Cornelius Company (this line of valves now made by Stewart Warner Corp. Indianapolis, Ind.)	Anoka, Minnesota 55303	
COSMODN	The Cosmodyne Corporation	Columbia Ave. at Maple Torrance, Calif. 90509	(213) 320-5650

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
CRANE	Crane Company	4100 South Kedzie Ave. Chicago, Ill. 60632	(312) 523-2900
CROSBY	Crosby Valve & Gage Co.	43 Kendrick Street Wrentham, Mass. 02093	
CRYOLAB	Cryolab, Division of Statics-Dynamics, Inc.	1155 Sunset Drive Los Osos, Calif. 93401	(805) 528-1598
CRYOVAC	CVI Division of Pennwalt Corporation	930 Kinnear Road Columbus, Ohio 43212	(614) 486-9535
DAHL	G. W. Dahl Co., Inc.	86 Tupelo Street Bristol, Rhode Island 02809	(401) 253-9500
DEVILBS	The De Vilbiss Company	PO Box 913 300 Phillips Avenue Toledo, Ohio 43601	(419) 474-5411
DENISON	Denison Division American Brake Shoe (Abex) Corp.	1160 Dublin Road Columbus, Ohio 43216	(614) 488-1191
DOLE	Dole Division Eaton, Yale and Towne	6201 Oakton Street Morton Grove, Ill. 60053	(312) 763-5000
DRAGON	Dragon Valves, Inc.	13457 Excelsior Drive Norwalk, Calif. 90650	(213) 921-6605
DRESSER	Dresser Industries, Inc. Vacuum Division	Needham Heights, Mass. 02194	
DURION	The Durion Co., Inc.	PO Box 1145 Dayton, Ohio 45401	(513) 254-5344

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
DYNEX	Dynex Division Applied Power Industries	777 Dynex Drive Pewaukee, Wisconsin 53072	(414) 691-0300
EDWARDS	Edwards Valve Company (Sold to Nordstrom Valve Div. Rockwell Mfg. Co.)	(See NORDSTM)	
EFCO	Efco Hydraulics, Inc.	26 Althea Street Providence, Rhode Island 02907	
FAIRBNK	The Fairbanks Company	2 Glenwood Binghampton, New York 13902	(607) 729-2251
F-HILLR	Fairchild-Hiller Corp. Industrial Products Division	1501 Fairchild Drive Winston-Salem, N. C. 27105	(919) 767-6010
FARRIS	Farris Engineering Corp.	400 Commercial Avenue Palisades Park, N. J. 07650	(201) 944-6300
FISHER	Fisher Controls Co.	1700 Fisher Bldg. Marshalltown, Iowa 50158	(515) 754-3011
FIS-PRT	Fischer & Porter Company	51 Warminster Road Warminster, Pennsylvania 18974	
FLODYNE	Flodyne Controls, Inc.	1703 Elizabeth Avenue East Linden, New Jersey 07036	
FLOMATC	Flomatics Division of Crane Company	PO Box 548 Folsom, Calif. 95630	(916) 985-4491
FL-CONT	Fluid Controls, Inc.	PO Box 49 Mentor, Ohio 44060	(216) 255-9711

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
FL-MECH	Fluid Mechanics Division (now Mission Valve & Pump Co.)	PO Box 194 Bellaire, Texas 77014	(713) 462-3461
FUTR-CR	Futurecraft Corporation	15430 Proctor Avenue Industry, Calif. 91747	(213) 330-1611
GENCNTR	General Controls Division of ITT	801 Allen Avenue Glendale, Calif. 91201	
GE	General Electric Co. Industrial Sales Div.	930 International Trademart New Orleans, Louisiana 70113	(504) 524-7234
GLOBE	Globe Industries Division of TRW, Inc.	1800 Stanley Avenue Dayton, Ohio 45401	
GROVE	Grove Valve & Regulator Co. Subsidiary of Walworth Co.	6529 Hollis St. Oakland, Calif. 94608	(415) 655-7700
HADLEY	B. H. Hadley, Inc.	1427 South Garey Ave. Pomona, Calif. 91766	
HAMMOND	Hammond Valve Corp.	1844 Summer St. Hammond, Indiana, 46320	(219) 931-3200
HANNA	Hanna Company A Rex Chainbelt Co.	1776 Elston Avenue Chicago, Ill. 60622	
HARRIS	Harris Calorific Co.	5501 Cass Avenue Cleveland, Ohio 44102	(216) 961-5700
HASKELL	Haskell Engineering & Supply Co.	100 East Graham Place Burbank, Calif. 91502	(213) 849-3931

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
HAYES	Hayes Manufacturing Co.	West 12th & Plum Streets Erie, Pennsylvania 16512	
HENRY	Henry Valve Co.	3215 North Avenue Melrose Park, Illinois 60160	
HILLS	Hills McCanna Division Pennwalt Co.	400 Maple Avenue Carpentersville, Ill. 60110	(312) 426-4851
HI-PRES	High Pressure Equipment Co.	1222 Linden Avenue Erie, Pennsylvania 16505	
HOFFMAN	Hoffman Engineering Co. Division of Federal Cartridge Corp.	1000 Tyler Street Anoka, Minnesota 55303	(612) 421-2242
HN-PRAT	Henry Pratt Co.	319 West Van Buren Chicago, Illinois 60607	
HOKE	Hoke, Inc.	One Tenakill Park Cresskill, New Jersey 07626	(201) 568-9100
HOMESTD	Homestead Valve Manufacturing Co.	11 Johnson Street Coraopolis, Penn. 15108	(412) 264-3240
HONEYWL	Honeywell, Inc. Industrial Division	1100 Virginia Drive Fort Washington, Pa. 19034	(215) 643-1300
HYDRESR	Hydraulic Research & Mfg. Co. Division of Bell Aerospace Co.	25200 West Rye Canyon Rd. Valencia, Calif. 91355	(805) 259-4030
HYDRMAT	Hydromatics, Inc.	5 Lawrence Street Bloomfield, N. J. 07003	(201) 748-7000

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
IMPEAST	Imperial-Eastman Corp.	6300 West Howard St. Chicago, Illinois 60648	(312) 967-6300
ITT	(See GENCNTR)		
J,P&C	James, Pond & Clark, Inc. Circle Seal Valves	PO Box 3666 Ahaheim, Calif. 92803	(714) 774-6110
JAMSBRY	Jamesbury Corporation	640 Lincoln St. Worcester, Mass. 01605	(617) 791-1761
JAYCO	(See SCOTT)		
JENKINS	Jenkins Brothers	510 Main Street Bridgeport, Conn. 06609	
JOHNSON	Johnson Service Co.	507 East Michigan St. Milwaukee, Wisconsin 53201	(414) 276-9200
JON-JEN	Jonnston&Jennings Co.	4720 West Division Chicago, Illinois 60607	
KAHN	Kahn & Company, Inc.	PO Box 516 Hartford, Conn. 06101	
KEMP	Kemp Aero Products	Marshall Hill Road West Milford, New Jersey 07480	
KENNEDY	Kennedy Valve Mfg. Co., Inc.	1069 East Water St. Elmira, New York 14902	(607) 733-4646
KERO-T	Kerotest Manufacturing Co.	2539 Liberty Avenue Pittsburgh, Pa. 15222	(412) 471-2584

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
KEYSTON	Keystone Valve Corp.	5325 Kirby Drive Houston, Texas 77005	(713) 526-3571
KIELY	Kiely-Mueller, Inc.	64 Genung Street Middletown, New York 10940	(914) 342-2526
KIDDE	Walter Kidde & Co., Inc.	476 Main Street Belleville, New Jersey 07109	
KINGSTN	F. C. Kingston Co.	1007 North Main St. Los Angeles, Calif. 90012	
KLIXON	Klixon Co., Inc.		
KUNKLE	Kunkle Valve, Inc.	125 South Clinton St. Fort Wayne, Indiana 46802	(219) 742-7283
LADEWIG	Ladewig Valve Co.	5608 East Washington Blvd. Los Angeles, Calif. 90022	(213) 723-6535
LADISH	Ladish Company, Valve Division	PO Box 159 Cynthiana, Kentucky 41031	(606) 234-1100
LEONARD	Wallace O. Leonard, Inc. (now HTL Industries, Inc.)	373 South Fair Oaks Ave. Pasadena, Calif. 91101	(213) 681-4446
LINDE	Linde Division, Union Carbide Corp.	270 Park Avenue New York, New York 10017	
LONERGN	J. E. Lonergan Co.	PO Box 6167 Philadelphia, Pa. 19115	(215) 677-1710
LUNKHMR	Lunkenheimer Co.	PO Box 14360 Cincinnati, Ohio 45214	

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
MANATRL	Manatrol Division Parker-Hannifin Co.	206 Perry Court Elyria, Ohio 44035	(216) 322-4631
MMM	Manning, Maxwell & Moore, Inc. (now Dresser, Industrial Valve & Instrument Division)	Highway 71 North Alexandria, Louisiana 71301	
MANSON	Manson Laboratories Subsidiary of Hallicrafters Co.	Wilton, Conn. 06897	
MAROTTA	Marotta Valve Corporation	770 Boonton Avenue Boonton, N. J. 07005	(201) 344-7800
MARSH	Marsh Instrument Co.	PO Box 300 3201 Old Glenview Road Wilmette, Illinois 60091	(312) 256-4750
MARSHAL	Marshalltown Manufacturing, Inc. Subsidiary of Eltra Corp.	PO Box 400 Marshalltown, Iowa 50158	(515) 752-4251
MASON-N	Masoneilan International, Inc.	63 Nahatan Street Norwood, Mass. 02062	(617) 762-4600
MATHSON	Matheson Company, Inc.	333 Paterson Plank Road East Rutherford, N. J. 07073	
METAL-P	Metallurgical Products	3500 Moore Street Philadelphia, Pa. 19145	
MILWAUKE	Milwaukee Valve Co.	2375 South Burrell St. Milwaukee, Wisconsin 53207	

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
MILLER	Miller Fluid Power Division, Flick-Reedy Corp.	7N015 York Road Bensenville, Ill. 60106	
MINNE-H	Minneapolis-Honeywell Regulator Co.	2954 Fourth Ave. South Minneapolis, Minn. 55408	
MISSION	Mission Valve & Pump Co.	PO Box 4209 Houston, Texas 77014	(713) 462-3461
MOORE	Moore Products Co.	Sumneytown Pike Spring House, Pa. 19477	(215) 646-7400
MUELLER	Mueller Brass Co.	1924 Lapeer Avenue Port Huron, Michigan 48060	(313) 985-5111
NCG	National Cylinder Gas	840 North Michigan Ave. Chicago, Ill. 60611	
NIBCO	Nibco, of Texas Division	Nacodoches, Texas 75961	(713) 564-8321
NORDSTM	Nordstrom Valve Division Rockwell Mfg. Co.	411 North Lexington Ave. Pittsburg, Pa. 15208	(412) 241-8400
NORGREN	C. A. Norgren Co.	5400 South Delaware Littleton, Colorado 80120	(303) 794-2611
NUMATCS	Numatics, Inc.	Highland, Michigan 48031	
OCECO	(See OIC)		
O.I.C.	Ohio Injector Co. Valves (Sold to Lunkenheimer Co.)	101 Pine Street Wadsworth, Ohio 44281	

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
OPW	OPW Division of Dover Corp.	2733 Colerain Avenue Cincinnati, Ohio 45225	
PACIFIC	Pacific Valves, Inc.	3201 Walnut Avenue Long Beach, Calif. 90801	(231) 426-2531
PARKER	Parker-Hannifin	100 Parker Drive Otsego, Mich. 49078	(616) 694-9411
PAULCHM	Paul Chemical Co., Inc. (now Airco Cryogenics)	1900 Lane Road Irvine, Calif. 92664	(714) 540-3010
PAUL-M	Paul-Munroe Hydraulics, Inc.	8345 East Slauson Ave. Pico Rivera, Calif. 90660	(213) 723-0692
PNUDRAU	Pneudraulics, Inc.	8961 Central Ave. Montclair, Calif. 91763	(213) 628-9024
POWELL	William Powell Co.	2503 Spring Grove Ave. Cincinnati, Ohio 45214	(513) 381-4600
POWERS	Powers Regulator Co.	3400 Oakton Street Skokie, Illinois 60076	(312) 673-6700
QUINCY	Quincy Compressor Co.	217 Main Street Quincy, Ill. 62301	
R-P&C	R-P&C	PO Box 10 Fairview, Pennyslvania 16415	(814) 474-5581
RACINE	Racine Hydraulics & Machinery, Inc.	200 Albert Street Racine, Wisconsin 53404	

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
REPUBLC	Republic Manufacturing Co.	15655 Brookpark Road Cleveland, Ohio 44142	(216) 267-2700
RIVETT	Rivett, Inc. Division of Applied Power Industries, Inc.	Pewaukee, Wisconsin 53072	(414) 691-2222
ROBSHAW	Robertshaw Controls Co.	1701 Byrd Avenue Richmond, Virginia 23226	(703) 282-9561
ROBBINS	Robbins Aviation, Inc.	3817 Santa Fe Ave. Vernon, Calif. 90058	(213) 589-5221
ROCKDYN	Rocketdyne Division of North American Aviation	Canoga Park, California 91303	
ROCKWEL	Rockwell Manufacturing Co.	The Rockwell Building Pittsburgh, Pa. 15208	(412) 241-8400
ROSS	Ross Operating Valve Co.	120 East Golden Gate Ave. Detroit, Mich. 48203	(313) 366-3340
ROYAL	Royal Industries, Inc.		
RUGGLES	Ruggles-Klingemann Manufacturing Co.	North Salem, Mass. 01971	
SAGE	Sage Engineering & Valve Co.	PO Box 19217 1463 Britmoore Road Houston, Texas 77024	(713) 464-0201
SARCO	Sarco Company, Inc.	1951 26th Street, SW Allentown, Pa. 18105	

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
SARASOT	Sarasota Precision Products, Inc.	PO Box 11-V Bee Ridge Sta. Sarasota, Florida 33578	
SCOTT	Scott Valve Company (now Jayco, Inc.)	2945 East Maple Road Birmingham, Michigan 48012	
SEALOL	Sealol, Inc.	PO Box 2158 Providence, Rhode Island 02905	
SECURTY	Security Division of Menasco sold Control Valves to Cla-Val Co.	PO Box 1325 Newport Beach, Calif. 92663	(714) 548-2201
	sold Shutoff Valves to Rockwell Mfg. Co.	6363 Knott Ave. Buena Park, Calif. 90620	(714) 523-4000
SHAND&J	Shand & Jurs Products (Singer) General Precision Systems, Inc.	6511 Oakton Street Morton Grove, Ill. 60053	(312) 966-4000
SHAW-FN	(See ROBSHAW)		
SKINNER	Skinner Electric Valve Division Skinner Precision Industries, Inc.	100 Edgewood Avenue New Britain, Conn. 06050	(203) 225-6421
SKYVALV	Victor Controls	2336 Auburn Blvd. Sacramento, Calif. 95821	(916) 482-9884
SPORLAN	Sporlan Valve Co.	7525 Sussex Ave. St. Louis, Mo. 63143	(314) 647-2775
SQUAR-D	Square D Company	Executive Plaza Park Ridge, Ill. 60068	

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
STERER	Sterer Engineering & Mfg. Co.	PO Box 39787 4690 Colorado Blvd Los Angeles, Calif. 90039	(213) 245-7161
STOCKHM	Stockham Valves & Fittings	PO Box 2592 40000 Tenth Avenue N. Birmingham, Alabama 35203	
STOKES	F. J. Stokes Corporation Division of Pennwalt Corp.	5500 Tabor Road Philadelphia, Pa. 19120	(215) 289-0100
STRATFL	Strataflo Products, Inc.	PO Box 515 4939 Decatur Road Fort Wayne, Ind. 46801	(219) 744-3313
SUPEROR	Superior Valve & Fitting Co.	West Liberty Ave. & Broo Pittsburgh, Pa. 15226	(412) 561-6700
SWENDMN	Swendeman, Inc.		
TEMESCL	Temescal Division Air Reduction Co. (AIRCO)	2850 Seventh Street Berkeley, Calif. 94710	(415) 841-5720
TESCOM	Tescom Corporation Fluid Systems Division	6118 Wayzata Blvd. Minneapolis, Minn. 55416	(612) 544-7791
TRANE	The Trane Company	206 Cameron Avenue La Crosse, Wisconsin 54601	
VACCO	Vacco Industries	10350 Vacco St. South El Monte, Calif. 91733	(213) 283-0331

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
VACOVER	Vacuum-Overquip		
VAC-ELE	Vacuum-Electronics Corp. (now Veeco Instruments, Inc.)	Terminal Drive at Ames Court Plainview, New York 11803	(516) 681-8300
VACRESH	Vacuum Research Mfg. Co. subsidiary of Cenco Instruments Co.	3100 Crow Canyon Road San Ramon, Calif. 94583	
VALCOR	Valcor Engineering Corp.	365 Carnegie Ave. Kenilworth, N. J. 07033	(201) 245-1665
VALVAIR	Bellows-Valvair, Division of International Basic Economy Corp.	200 West Exchange St. Akron, Ohio 44309	
V&P	Valve & Primer Corp.	1001-M Nicholas Blvd. Elk Grove Village, Ill. 60007	(312) 437-7600
VAREC	Varec, Incorporated subsidiary of Microdot, Inc.	Alameda & Long Compton, California 90220	
VICTOR	Victor Equipment Co.	844 Folsom Street San Francisco, Calif. 94107	
VIKING	Viking Pump Co. Division of Houdaille Industries, Inc.	George & Wyth Streets Cedar Falls, Iowa 50613	(319) 266-1741
WAGNER	Wagner Electric Corp.	6410 Plymouth Ave. St. Louis, Mo. 63133	(314) 721-5000
WALTR-KD	(See KIDDE)		

VENDOR DESIGNATIONS (Continued)

Abbreviation	Vendor	Address	Phone
WALWORTH	Walworth Co.	PO Box 1103 Huff Avenue Greensburg, Pennsylvania 15601	(412) 837-6100
WATTS	Watts Regulator Co. Fluid Power Division	PO Box 628 10 Embankment Street Lawrence, Mass. 01842	(617) 688-1811
WEATHER	Weather Manufacturing Co.		
WESTHSE	Westinghouse Air Brake Co. Pneumatic Equip. Division	PO Box 204 Sidney, Ohio 45365	
WHITEY	Whitey Research Tool Co.	5679 Landregan Street Emeryville, Calif. 94608	
WORCESR	Worcester Valve Co., Inc.	18 Parker St. Worcester, Mass. 01610	
WORTHN	Worthington Controls Co. Masoneilan International, Inc.	63 Nahatan St. Norwood, Mass. 02062	(617) 762-4600
YOUNG	Young Radiator Co.	724 South Marquette St. Racine, Wisconsin 53403	

Appendix H

MAINTAINABILITY RATING

Three degrees of valve maintainability are defined below, based on the relative difficulty anticipated in repairing or replacing the valve in the fluid system, and also according to the resultant system contamination expected. The degrees are as follows:

Most preferred degree of maintainability:

a. The valve is easily removed from the system for unit replacement; i.e., a valve with flange or tubing connections is easier to remove from a piping system than is a valve with pipe thread or weld connections.

b. Replacement of the valve does not cause contamination of the fluid system and, therefore, does not necessitate subsequent cleaning of the fluid system.

c. The valve construction is relatively simple and allows in-line maintenance without probability of fluid system contamination.

Intermediate degree of maintainability:

a. The valve requires partial disassembly, while in the fluid system, before it can be removed.

b. The valve has pipe connections which would probably necessitate a partial disassembly of the system piping to remove the valve.

c. Due to the additional effort required to disassemble the valve or the system piping, the possibility of system contamination is increased.

Least preferred degree of maintainability:

a. Removal of the valve from the system would definitely result in fluid system contamination; i.e., removing a welded valve from a fluid system by burning or cutting the end connections loose.

b. The system will require extensive cleaning after the replacement valve is installed.